"APPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"
APPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5" SOURCE CODE: UR/0413/66/000/008/0074/0074 L 04277-67 ENT (h) (A)ACC NR: AP6013273 AUTHORS: Zverev, I. N.; Chernyshov, A. N. TITLE: A method for producing concrete slabs and similar products subject to electric heating. Class 37, No. 180781 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 74 TOPIC TAGS: concrete, reinforced concrete, heating ABSTRACT: This Author Certificate presents a method for producing concrete slabs and similar products subject to electric heating between parallel electrodes, with the current passing in the direction of the slab's thickness (see Fig. 1). To manufacture reinforced products and to increase simultaneously the effectiveness of the electric heating, the reinforcement is composed of compounded sections, the separate portions of which are interconnected by dielectric rods.

Card 1/2

UDC: 691.87-427:666.98.035.5.04

Orig. art. has: I figure.

SUB CODE: 13/ SUBM DATE: 15May64

AA 2/2

"Approved for release: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

AMPROVED for release: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

EUZELEV, Mikheil Yekovlevich; SEVORTSOV, Aleksey

Mikolay Hikolayevich; ZOHHU, B.F., kandidat tekhnicheskikh nauk,

Wikolay Hikolayevich; ZOHHU, B.F., kandidat tekhnicheskikh nauk,

rotsenzent; BOHETSKIY, A.A., dotsent, otvetatvennyy redaktor;

VOLFYARSKIY, L.M., inzhener; redaktor; CHCKE, MAN, H.R., inshener,

redaktor; DEMAKOV, A.F., inshener, redaktor; KOKOVINA, A.S., inshener,

redaktor; RESTERIV, B.A., inshener, redaktor; RAZUKOVA, M.S., inshener,

redaktor; SIDOFENKO, R.A., inshener, redaktor; ROZENBERG, I.A., kandi
redaktor; SIDOFENKO, R.A., inshener, redaktor; ROZENBERG, I.A., kandi
redaktor; redaktor; DUOINA, H.A., tekhnicheskiy

redaktor

[Foundry worker's handbook] Spravochnik rabochego-liteishchika.

Izd. 2-os. dop. i perer. Hoskva. Gos. nauchno-tekhn. isd-vo
mashinostroit. lit-ry, 1956. 634 p.

(Founding)

[1] 李月 智·斯尼斯斯[[南斯斯斯斯][1] [[西斯][[西斯][1] [[西斯][[西斯][[西斯][[西斯][]]]] APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

ZVEREV, I. N.

Rasprostranenie vozmushchenii v viazkouprugom i viazko-plasticheskom sterzhne. (Prikladnaia matermatika i mekhanika, 1950, v. 11, p. 295-302)

Title tr.: The propagation of a disturbance in a visco-elastic and visco-plastic bar.

QA801. P7 1950

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

AUTHOR: Mal'tsev, M. V.; Korozov, L. N.; Zverev, K. P.; Yefremov, Yu. N.

ORG: none

TITLE: Oxidation of beryllium in air at high temperature

70.55, 27

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 1, 1966, 116-118

TOPIC TAGS: beryllium, beryllium oxidation, oxidation kimetics

ABSTRACT: Disk-shaped beryllium specimens, 16 mm in diameter and 5 mm thick, cut from hot-compacted and extruded beryllium bars which were vacuum annealed at 850C for 2 hr, were tested for oxilation behavior at 300, 400, 600, 800, 900, 950, or 1000C for 0.5, 1, 5, 10, 30, 60, or 120 min. Visual examination revealed no changes in the surface of tested specimens after 120-min testing at temperatures up to 400C; the surface darkened slightly after testing at 600C, and lost brightness after testing at 800C. A thick white layer easily separated from the surface was formed within 5 min at 100C. The weight gain (see Fig. 1) in the first period of testing is

Card 1/2

UDC: 669.725:669.094.3

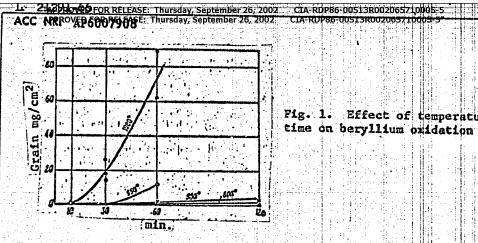
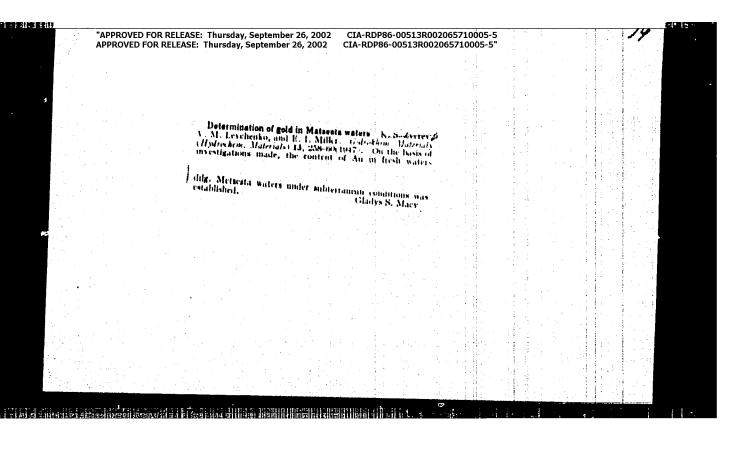
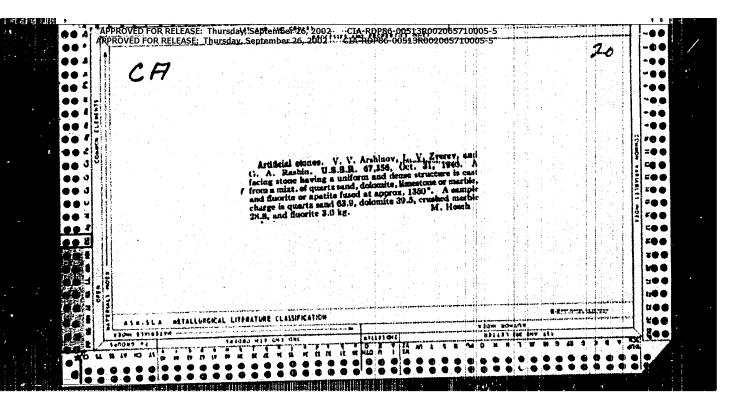


Fig. 1. Effect of temperature and heating time on beryllium oxidation

insignificant because the first oxide film formed protects against oxidation up to 600C. Electron-diffraction analysis showed that no oxide film forms on specimens tested at 300C for 2 hr. Beginning with 400C, an oxide film begins to form. The oxide and the beryllium monoxide have a hexagonal lattice with parameters a = 2.694 Å and c = 4.392 Å. The oxide formed at 600, 800, or 1000C has a coarse-; grained structure; the grain size increases with increasing temperature and holding time. Orig. art. has: 2 figures. [AZ] Fr no

SUB CODE: 11,07 SUBM DATE: 200ct64/ OTH REF: 002/ ATD PRESS: 4221





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TRESTERING FOR RELEASE! Thursday, September 26, 2002 CIA-RDP86-00513R00206571005-5

TRESTERING FOR RELEASE CONTROL FOR RELEAS

[Technology of preparing steel castings] Tekhnologiia izgotovleniia stal'nykh otlivok. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 255 p. (MIRA 11:4) (Steel castings)

"Peat briquetting in the USSR."

Report submitted for the 2nd International Peat Congress, Leningrad, 15-22 Aug 63.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR DELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

AZAROV, E.K., red.; PRESNOVA, V.A., tekhn. red.

[Profit of an industrial enterprise] Rentabel'nost' promyshlennogo predpriiatiia. Leningrad, Lenizdat, 1961. 28 p. (MIRA 15:2)

(Leningrad-Industrial management)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" GOROZHANINOV, N.Ye.; ZVEREV, L.I.

· Crane tracks free of joints in plants of a metallurgical combine. Stal' 21 no.5:477-478 My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu v g.Sverdlovske Akademii stroitel'stva i arkhitektury SSSR i Nizhne-Tagil'skiy metallurgicheskiy kombinat.

(Metallurgical plants-Equipment and supplies)

(Cranes, derricks, etc.)

GOROZHANINOV, N.Ye., kand. tekhn. nauk; GARYAYEV, A.L., inzh.; ZVEREV, L.I., inzh.

> Submerged melt welding of the rails of crane tracks. Svar. proizv. no.9:35 S 165. (MIRA 18:9)

- Ural'skiy "Promstrovniiproyekt" (for Geroshaninev).
 Magnitegorskiy metallurgicheskiy kombinat (for Garyayev).
 Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Zverev).

CIA-RDP86-00513R002065710005-5 26, 2002 CIA-RDP86-00513R002065710005-5" eptember 26, 2002 8/181/60/002/010/049/051 B019/B056 M. M., and Shur, M. Ta. On the Contour of the Exciton Absorption Bands in Cuprous 24.7700 (1043,1143,1559) Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2643 - 2646 TEXT: In the introduction the results obtained by investigations of the anarotion spectral of the absorption spectral or the absorption spectral or the absorption spectral or or the absorption of the absorption AUTHORS: TEXT: In the introduction the results obtained by investigations of the absorption spectra, and Yearly of the absorption of the absorption of the absorption and Yearly optical properties of crystals, especially of the present paper experimentally of the discussed. Among others, E. I. Rashba, A. S. Davydov, and Yearly optical properties of the present paper experimentally are discussed. Among others, E. I. Rashba, A. S. Davydov, and Yearly optically of the present paper experimentally of the paper experimentally of the present paper experimentally of the present paper experimentally of the paper TITLE: Gross are mentioned. The authors of the present paper experimentally series of exinvestigated the contour of the second band of the yellow series at investigated the contour of thin cuprous oxide single crystals at citon absorption bands and of thin cuprous oxide single crystals. PERIODICAL: investigated the contour of the second band of the yellow series at oxide single crystals at other bands and of thin cuprous oxide single carried out temperatures of from 4.2 - 190°K. The measurements were carried temperatures of from 4.2 - 190°K. citon absorption bands and of thin cuprous oxide single crystals at on temperatures of from 4.2 - 190°K. The measurements with high dispersion and the type A&C-4 (DFS-4) with high dispersion and type A&C-4 (DFS-4) with high di temperatures of from 4.2 - 190°K. The measurements were carried out on with high dispersion of the type ApC-4 (DFS-4) with high dispersion a diffraction spectograph of the three samples investigated had a thick and photoelectric recording. The three produced from thin and photoelectric respectively. and were produced from the ness of 9. 30. and 110 u. respectively. and photoelectric recording. The three samples investigated had a thick-ness of 9, 30, and 110 µ, respectively, and were produced from the copper foils by oxidation in air at 1030°C. The contours of the exciton -a 1/3

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On the Contour of the Exciton Absorption Bands in Cuprous Oxide

в/181/60/002/010/049/05 во19/во56

absorption bands (n = 2) in all three samples investigated showed good agreement. The maximum absorption coefficient was measured at 77.30K as amounting roughly to 180 cm⁻¹. The temperature dependence of the exciton absorption line width is graphically represented in Fig. 1, and from the contour of the absorption line showed in Fig. 2 the good agreement of the measured results with those obtained from the formula (1) given by Toyozawa (Ref.3) for the absorption coefficient may be recognized. Thus, the opinion expressed by Toyozawa that the broadening of the exciton absorption lands is caused by the exciton-phonon interaction, is confirmed. Furthermore, it is also confirmed that the lifetime of the photoexcitons at temperatures below 550K is principally determined by zero-vibrations of the lattice. From the good agreement between the experimental data with the theory, the conclusion may be drawn that only the acoustic branch of the lattice-vibration spectrum plays an essential part in excitor-phonon interaction. The authors thank N. V. Volkenshteyn for his assistance in the experiments and G. G. Taluts for discussing the results obtained. There are 2 figures and 10 references: 5 Soviet, 4 US, and 1 German.

Card 2/3

Photomagnetoelectric effect and zone structure in copper oxide. Fiz.tver.tela 3 no.11:3556-3558 N '61. (MIRA 14:10)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo, Sverdlovsk.

(Photomagnetic effect) (Copper oxide)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R00206571005-5 CIA-RDP86-00513R002065-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP8

24.2600

SOV/139-59-2-6/30

AUTHORS:

Zverev, L.P., Noskov, M.H. and Shur, M.Ya.

TITLE:

The Effects of an Electric Field on the Spectral Response Curve for Photoconductivity in Cuprous Oxide

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 2, pp 39-42 (USSR)

ABSTRACT:

Polycrystalline Cu₂O is used at 77°K in this work. The spectral response is examined at high dispersion (6 Å/mm) with a grating spectrograph and the absorption spectra are also recorded. Only two field strengths (300 and 6000 V/cm) are used. Fig 1 shows spectral response curves (uncorrected for the energy distribution in the exciting spectrum); the wavelength scale is in mm; Fig 2 shows a small region at higher resolution. Fig 3 shows the effect of the field for one specimen; curve I relates to 300 V/cm and curve II to 6000 V/cm. The first exciton line occurs in absorption at 612.53 mm but it can be detected only in thick specimens; it is not seen in Fig 4b. (Fig 4a is merely Fig 3 on a larger scale.) Figure 4c is at the top right and relates to 6000 V/cm; Fig 4b is at the bottom right (300 V/cm). The second and third exciton lines lie at 579.2 and 575.6 mm respectively

Card 1/2

9,4178 (1035,1114,1482)

0808 | S/181/61/003/011/056/056 | В109/В102

AUTHORS:

Zverev, L. P., Noskov, M. M., and Shur, M. Ya.

TITLE:

Photomagnetoelectric effect and band structure in cuprous

oxide

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3556-3558

TEXT: Owing to the lack of an appropriate monochromatic light source the spectral behavior of the photomagnetoelectric effect (PME) could so far not be sufficiently studied. These difficulties could be overcome by using a β -3 (D-3) lamp with strong monochromators (pass band 15 to 40%). The measurements were made with 150-300-micron thick cuprous oxide platelets

at 77°K in 25-koe fields between 4000 and 7000 Å. In this case the dark conductivity was much lower than photoconductivity. Fig. 1 shows the measurement results which clearly indicate three spectral ranges: (1) No

PME occurs above 5800 Å. This can be explained by the fact that electrons are produced in the polaron state. As compared to the free electrons their mobility is lower and their diffusion length is shorter. (2) Card $1/\sqrt{2}$

30808 S/181/61/003/011/056/056 B109/B102

Photomagnetoelectric effect and band ...

Between 5800 and 4900 A the PME is due to the production of free carriers. Its monotonic rise is determined by the dispersion of the absorption coefficient and the quantum yield of the internal photoeffect. (3) Below 4900 A the behavior of the PME corresponds to the wavelength dependence

4900 A the behavior of the PME corresponds to the wavelength of of the PME near the fundamental absorption edge, which is typical of semiconductors. This phenomenon is connected with the abrupt increase of semiconductors. This phenomenon is connected with the abrupt increase of the diffusion length, in this case determined by the electron parameters, the diffusion length, in this case determined by the electron parameters, the diffusion characteristics are produced. The electrons with other diffusion characteristics are produced. The conduction band splitting in Cu₂0 was suspected already by S. A. Moskalenko (FTT, 2, 1755, 1960). Also the data by I. Pastrnyak, P. A. Moskalenko (FTT, 2, 1755, 1960). Also the data by I. Pastrnyak, P. A. Titov (FTT, 3, 861, 1961), I. Pastrnyak (FTT, 1, 971, 1959), A. L. Rvachev (ZhTF, 28, 45, 1958), and N. B. Gornyy (ZhETF, 35, 281, 1958) speak in favor of this assumption. The authors thank I. M. Tsidil'kovskiy for discussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. The two references to English language publications read as follows: I. Kikoni, M. Noskov. Nature, 151, 725, 1933; W. Gartner. Phys. Rev., 105, 823, 1957.

card 2/4/3

30808 S/131/61/003/011/056/056 Photomagnetoelectric effect and band ... blog/B102

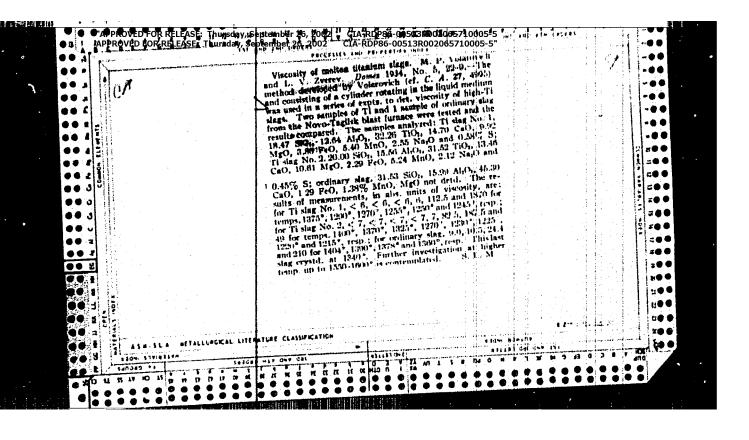
Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo Sverdlovsk (Ural State University imeni A. M. Gor'kiy Sverdlovsk) ASSOCIATION:

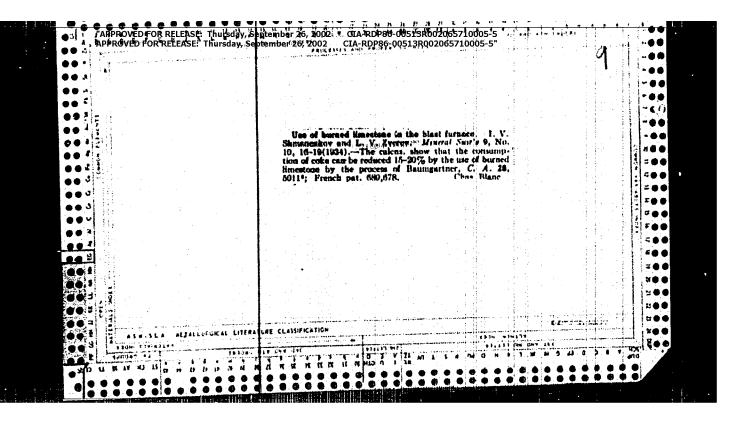
SUBMITTED:

August 25, 1961

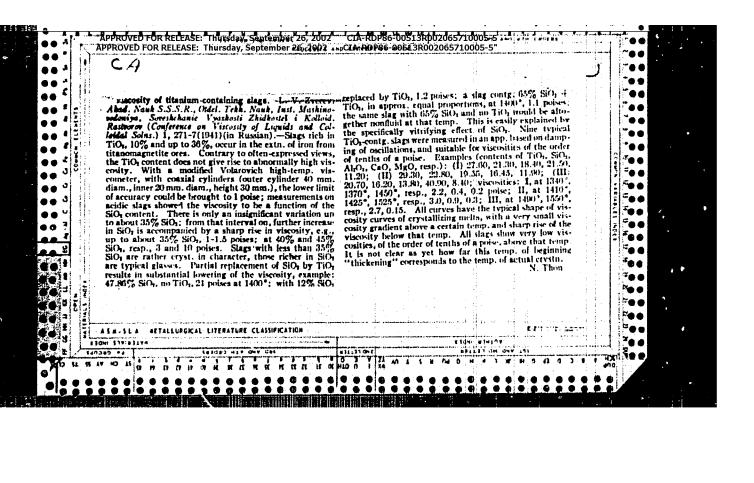
Fig. 1. Spectral dependence of the photoconductivity (6) and of the short-circuit current of the PME (α, β) for Cu_2O .

Legend: (1) I short-circuit current; $\epsilon_{\rm ph}$, photoconductivity in arbitrary units; ℓ is the first part of curve α on an enlarged scale.





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Geography and Geology

Requirements of industry as to the quality of mineral raw materials. Handbook for geologists--Moskva, Gos. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SNK SSSR, No. 24, Manganese, 1947.

Monthly List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.

Application of the state of the

CHERNYAK, Abram Samuilovich; IVANOVSKIY, M.D., prof., retsensent; ZVEREV, L.V., kand. tekhn. nauk, otv. red.

[Chemical dressing of ores] Khimicheskoe obogashchenie rud. Moskva, Nedra, 1965. 201 p. (MINA 18:9) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

ACC NR: AT7007280

(N)

SOURCE CODE: UR/3249/66/000/013/0027/0034

AUTHORS: Zverev. L. V.; Petrova, N. V.; Murali, G. N.; Makarova, N. P.

ORG: none

がない かいき

TITLE: The use of water-soluble amines in treating tantalum-niobium materials

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Mineral'noye syr'ye, no. 13, 1966. Obogashcheniye i pererabotka mineral'nogo syr'ya (Concentration and processing of minerals), 27-34

TOPIC TAGS: metallurgy, tantalum compound, niobium compound, amine

ABSTRACT: The authors have found that the use of oxalic acid or hydrogen peroxide in forming Ta and Nb complexes is unsatisfactory because of instability and other factors. The use of water-soluble amines is suggested. The present paper outlines the optimal conditions for leaching Nb and Ta from sulfate cake by using as complexing agents methylamine, monoethanolamine, and trie+hanolamine. Columbite concentrates were not in the test. The technique found to be most satisfactory is the following. One part (by weight) of the concentrate is added to 2.5-3 parts of H₂SO₁, the mix is held for two hours at 350C. The material is then washed with water and treated with methylamine for 30 minutes at 40C. The Nb and Ta are now in solution and may be removed. Neutralization with a weak mineral acid precipitates Nb and Ta pentoxides

Card 1/2

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ACC NR: AT7007280 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

(with a purity of 99%). After the precipitate is filtered off, the amine may be regenerated by addition of CaO, which combines with the sulfate radical to form CaSO₄. This may be removed, and the pure amine is ready for re-use in the process. Orig. art. has: 8 figures and 6 tables.

002

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF:

Card 2/2

ZVEREV, L.V.; YELFIMOV, 1.1.

Chlorination of circonium in the melt of chlorides. Min.syr'e no.9: .6-24 '63. (MIRA 17:10) Extraction of niobium by trictylamine from sulfuric acid solutions. Min.syr'e no.9:25-31 '63. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

MILOVANOV, G.N.; CHERNOSVITOV, Yu.L.; GINZBURG, A.I., nauchnyy red.;
YERSHOV, A.D., glavnyy red.; ZVEREV, L.V., red.; ZUBAREV, H.H., red.;
KREYTER, V.M., red.; MOXROUSOV, V.A., red.; SOLOV'YEV, D.V., red.;
KHRUSHCHOV, N.A., red.; SHMANKHKOV, I.V., red.; IZRAILEVA, G.A.,
red.; ZVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; hardoock for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po geol. i okhrane nedr. No.51. [Rare earth elements] Redkozemel'nye elementy. Izd.2., perer. 1959. 58 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Rare earths)

ZVEREV, L.V.; KONTOROVICH, G.I.; CHERNYSHEV, G.B., naudhnyy red.; STOLYAROV, A.G., red.izd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gosgeoltekhizdat. No.24. [Manganese] Marganets. 1960. 57 p.
(MIRA 16:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ia.

(Manganese)

ZVEREV, L.V.; SMIRNOVA, N.N.; FILIPPOVSKAYA, T.B.

Solubility of rock-forming silicate minerals in sulfuric acid solutions. Min.syr'e no.4:134-147 '62. (MIRA 16:4) (Silicates) (Sulfuric acid)

BENESLAVSKIY, S.I.; GORETSKIY, Yu.K.[deceased]; ZVEREV, L.V.; SOSHNIKOVA, M.S., nauchnyy red.; GRISHINA, T.B., red. izd-va; RYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gosgeoltekhizdat. No.35. [Aluminum] Aliuminii. 1962. 59 p. (MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchnyy nauchno-issledovateliskiy institut mineralinogo syriya.

(Aluminum)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

GLAZKOVSKIY, A.A.; KRUTOV, G.A., nauchnyy red.; ZVEREV, L.V., nauchnyy red.; MATIS, T.I., red. izd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral nogo syr'ia; spravochnik dlia geologov. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane nedr. No.55.[Cobalt] Kobal't. Nauch. red. G.A.Krutov i L.V.Zverev. Izd.2., perer. 1961. 49 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Cobalt)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065710005-5
CIA-RDP86-00 glavnogo red.; SHMANENKOV, I.V., zam.glavnogo red.; KALMYKOV, G.S., nauchnyy red.; GINZBURG, A.I., red.; ZYEREV, L.V., red.; ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; FEDOROVA, L.N., red.izd-va; IVANOVA, A.G., tekhn.red.

> [Industry's requirements as to quality in mineral raw materials; a hardbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gecl. i okhrane nedr. No.66. [Coal] Ugol. Nauchn.red.G.S.Kalmykov. 1960. 110 p. (MIRA: 14:6)

> 1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Coal)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
VINOGRADOV, S.S.; ZUBAREV, N.N., nauchnyy red.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L., zam. glav. red.; SHMAHENKOV, I.V., zam. glav. red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; MOKROUSCV, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV, A.T., red.; KHRUSHCHOV, N.A. red.; LYUBCHENKO, Ye.K., red. izd-va; BYKOVA, V.V., tekhn.red. [Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr. No.10[Limestones Izvestniaki. Nauch. red. N.N. Zubarev. 1961, 61 p. (MIRA 14:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Limestone)

BUTKEVICH, T.V.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L., zamestitel' glav. red.; SHMANEHKOV, I.V., zamestitel' glav. red.; GINZBURG, A.I., red.; ZVERRY, L.Y., red.; ZUBARRY, H.N., red.; MOKROUSOY, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV, A.T., red.; KHRUSHCHEY, N.A., red.; STEPANOY, I.S., nauchnyy red.; ROZHKOVA, L.G., red. izd-ve; IYERUSALIMSKAYA, Ye.S., tekhn. red.

> [Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniis promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd. 2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit- ry po geol. i okhrane nedr. No. 43. [Tungsten] Vol'fram. 1960. 61 p. (MIRA 14:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral'nogo syr"ya.

(Tungsten)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

CIA-RDP86-00513R0020657 LEVIUSH, I.T., red.; MOKROUSOV, V.A., red.; PODKOSOV, L.G., red.; ROZHKOVA, Ye.V.; SOLOV'YEV, D.V., red.; FEDOROV, F.N., red.; FINKEL'SHTEYN, I.D.; KHONINA, O.I., red.; CRISHINA, T.B., red. izd-va; GUROVA, O.A., tekhm. red.

[Studies on the dressing and industrial processing of minerals] Issledovanija po obogashcheniju i tekhnologij poleznykh iskopaemykh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 131 p.

1. Russia(1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (for Eygeles, Leviush) (Ores)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

PETROVSKAYA, N.V.; KLIMENKO, N.G.; GINZBURG, A.I., nauchnyy red.;
YERSHOV, A.D., glavnyy red.; CHERHOSVITOV, Tu.L., zam. glavnogo
red.; SHMANENKOV, I.V., zam.glavnogo red.; ZVEHEV, L.V., red.;
ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKRCUSOV, V.A., red.;
SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOMEROV, A.G.,
red.1zd-va; IVANOVA, A.G., tekhn.red.

[Industrial requirements for the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.71. [Selenium and tellurium] Selen i tellur. Nauchn.red. A.I. Ginzburg. 1960. 45 p. (MIRA 14:1)

1. Hoscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Selenium ores) (Tellurium ores) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

RAMZES, B.Ya.; ZUBAREV, H.N.; CHERNOSVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; SHMAHENKOV, I.V., zam.glavnogo red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KREYTER, V.M., red.; MOKROUSOV, V.A. red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; IZRAILEVA, G.A., red.izd-va; BYKOVA, V.V., tekhn.red.

[Industrial specifications for the quality of raw minerals; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva.
Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr. Mo.2.
[Quartz sand] Pesok kvartsevyi. Nauchn.red. IU.L. Chernosvitov.
1955. 55 p. (MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral nogo syr'ya.

(Sand)

BORZUNOV, V.M.; PETROV, V.P., nauchnyy red.; YERSHOV, A.D., glavnyy red.; CHERNOSVITOV, Yu.L., zam.glavnogo red.; SHMANIZIKOV, 1.V., zam. glavnogo red.; GINZBURG, A.I., red.; ZVEREY, L.V., red.; ZUBAREY, N.N., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOLYAROV, A.G., red.izd-va; IVANOVA, A.G., tekhn.red.

> [Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.12. [Feldspars] Polevoshpatovoe syr's. Nauchn.red. V.P.Petrov. (HIRA 13:9) 1960。 25 p.

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skly institut mineral'nogo syr'ya.

(Feldspar)

STEPANOV, I.S.; CHERNOSVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZYEREV, L.V., red.; ZURAREV, N.M., red.; KRETTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YNV, D.V., red.; KHRUSHCHOV, N.A., red.; SHMANENKOV, I.V., red.; STOLYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral nogo syria; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.46. [Rubidium and cesium] Rubidii i tsezii. Nauchn.red. IV.L. Chernosvitov. 1960. 33 p. (MIRA 14:2)

1. Moscow. Vsesoyuznyy nauchno-issledovetel'skiy institut minerel'nogo syr'ya. (Rubidium) (Cesium) VESELOVSKIY, V.S.; BERLING, N.I., nauchnyy red.; YERSHOV, A.D., glavnyy red.; CHERNOSVITOV, Yu.L., zam.glavnogo red.; SHMANEUKOV, I.V., zam. glavnogo red.; GINZBURG, A.I., red.; ZYEREY, L.V., red.; ZUBAREY, N.N., red.; KREYYER, V.M., red.; MOKROUSOV, V.A., red.; SCLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOLYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.3. [Graphite] Grafit. Nauchn.red. N.I.Berling. 1960. 44 p. (MIRA 13:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral'nogo syr'ya. (Graphite) APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

CHERNOSVITOV, Yu.L.; KONSTANTINOV, M.M., neuchnyy red.; YERSHOV, A.D., glavnyy red.; SHMANEHKOV, I.V., zam.glavnogo red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; NEKRASOVA, N.B., red.; red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements for the quality of raw minerals; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineralnogo syr'ia; spravochnik dlia geologov. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po geol. i okhrane nedr. No.67. [Uranium] Uran. Nauchn.
red.M.M.Konstantinov. Izd.2., perer. 1959. 65 p. (MIRA 13:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Uranium)

A New Method for the Determination of Legal Sulphides in Ores ELEASE: Thursday, September 26, 2002 Zverev, L.V., Petrova, N.V. (Novy metod opredeleniya suli fidnogo cleva v rudakh). Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1403-1405 (USSR) The methods hitherto published in the USSR Martioned above are based AUTHORS: The methods nather to published in the USSK Martioned above are to upon the property of the lend sulphides of dissolving nethods developed by methods develo whilst lead oxides remain undissolved. The methods developed by Hirsch. Dolinivo Dobrown 1: skiv (Kilmanko) and Stander are committed. TITLE: whilst lead oxides remain undissolved. The methods developed by Hirsch, Dolinivo) Dobrovol'skiy (Klimeriko) and Sidorkin are compared to be faulty with one another and eventually all three are all three are another and eventually all three are all t mirson, normally all three are declared to be faulty with one another and eventually all three are declared to he contained in this paper. PERIODICAL: with one another and eventually all three are declared to be laury in this paper. As is stated here, practical results can be obtained in this case by the ambigation of objective (and), by discontinuing in this case by the ambigation of objective (and). in this case by the application of chloring (gas), by dissolving in this case by the application of chloring termellowide with a slittle chlorinated lead sulphides in carbon termellowide with a slittle chlorinated in this case by the application of chloring (gas), by dissolving the chlorinated lead sulphides in carbon tetrachloride with a slight chlorinated lead sulphides in carbon tetrachloride when remaining ABSTRACT: the chromated read surphides in carpon tetrachioride with a six addition of elementary sulphur and the lead oxide here remaining unchanged and undiscoluted. In the curther course of the monk in addition or elementery sulphur and the Lead oxide here remaining unchromed and undissolved. In the further course of the Work it is, unchromed and unclassorved. In the further course of the work it is however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming however. nowever, recommended to replace chroming in this case by promine tion, which is supposed to facilitate the process of analyzation to considerably. The process of analyzation is described and the recion, which is supposed to ractilibre the process of analyzation is described and the reconsiderably. The process of analyzation is described and the recults sults are shown in a table another table commerce the recults considerably. The process of analytation is described the results sults are shown in a table. Another table compares the results obtained according to the methods by Himsh Bolinows-Bohmani. sults are snown in a table. Another table compares the results obtained according to the methods by Hirsch, Dolinovo-Dobrovol'ship Card 1/2

with the method suggested here. Examples: at a 20,03% content of Sn in quartz ore: 1,92% dissolved and 18,15% undissilved was obtained in case I; 2,07% dissolved and 17,96% undissolved was obtained case II; 0,015% sulphide with 20.00% oxide of Sn was obtained in case III (according to the method suggested). There are 2 tables and case III (according to the method suggested). There are 2 tables and 6 Slavic references.

ASSOCIATION: All-Union Institute for Mineral Raw Materials (Vsessyuznyy institut AVAILABLE:

Library of Congress

Card 2/2 1. Ores-Lead sulfides-Determination "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 RUSANICS -00513R002065710005-5

All-Union conference on laboratory methods of studying ores and minerals of rare and trace elements. Sov. geol. no.61:158-166 57.

(MIRA 11:4)

1. Vsesoyuznyy institut mineral'nogo syr'ya.
(Mineralogy--Congresses)

137-58-5-9289

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 72 (USSR)

AUTHOR: Zverev, L.V.

TITLE: Speiss Smelting of Lean Cobalt Ores (Playka bednykh kobal tovykh rud na shpeyzu)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn metallurgii SSSR, 1957, Nr 6, pp 15-16

A method of speiss smelting of lean Co ores at increased ABSTRACT: temperatures, in a mildly reducing atmosphere, and on slags with small Fe content was investigated under laboratory conditions. The loss of Co in the slags is a direct and well-defined function of the degree of Fe transition into the slag. By employing speiss smelting followed up by two stages of concentra. tion smelting of ore, in which the Co/Feratio is equal to 0.065, it is possible to obtain a speiss product in which this ratio is equal to 2.14. Co losses in the waste slags are less than 10%. The smelting was conducted at a temperature of 1420-1500°C. An addition of CaF2 (3%) improves the progress of the process by lowering the viscosity of slags. Results of laboratory smelting of ores with various Co content are shown. Card 1/1 G.S. 1. Cobalt ores--Processing

2. Slags--Properties

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR APP

[Alma-Ata nature calendar] Kalendar' Alma-Atinskoi prirody. Alma-Ata, Kazakhskoe gos. izd-vo khudozh. lit-ry, 1955. 15 p.

(Alma-Ata Province--Nature) (MIRA 11:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

Science

Traveling animals; series "For the young reader".

Irkutsk, Irkutskoe obl. gos. izd-vo, 1951.

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

ZVEREV, M.

HUMANIA CARANA SEPTEMBER 26, 2002

Ingratitude.Vekrug sveta ne.12:49 D 155. (HIRA 9:4)

(Hunting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, M., inzhener; KAIAFATOV, P., inzhener.

Narrew-range loading units. Mast. ugl. 5 ne.9:24-25 S '56. (Goal mining machinery) (MIRA 9:10)

Monthly List of Russian Accessions, Library of Congress,

Monthly List of Russian Accessions, Library of Congress,

Monthly List of Russian Accessions, Library of Congress,

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.; NIKOL'SKIY, P.

Naturalist's notes. IUn. nat. no.8:37-38 Ag '58.

(Kazakhstan--Birds--Habits and behavior)
(Animals, Habits and behavior of)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

"Chemistry and technology of the production of nitron fibers" by
A.B.Pakshver, B.E.Geller. Reviewed by M.Zverev. Khim.volok. no.6:

(Textile fibers, Synthetic) (Acrylonitrile polymers)

(Pakshver, A.B.) (Geller, B.E.)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
DOROKHINA, I.; ZVEREV, M.

Development of processes for obtaining fibers from polypropylene.

Khim volok. no.5:77-78 '61. (MIRA 14:10)

(Textile fibers, Synthetic) (Polypropylene)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 ZVEREV, M.

It changed from night to day. IUn. nat. no.1:36-37 Ja '62. (MIRA 15:1) (Foxes)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 ZVEREV, M. D. CIA-RDP86-00513R002065710005-5

Zverev. M. D. - "Problem of the running speed of certain animals," Trudy Almant. gos. zapovednik, Issue 7, 1948, p. 153

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

Zverev. M. D.- "The problem of feeding the Tyan!-Shan titmouse," Trudy Almaat. gos. zapovednika, Issue, 7, 1918,

SO: U-h934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5" CIA-RDP86-00513R002065710005-5"

Birds of Frey

Is the sense of smell edveloped in predatory birds? Prirods 41 No. 7, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED

"ARPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

Arrors in biology in chilien's science-fiction. Bat. v shkole no.3:84-89
My-Je '53. (MLHA 6:5)

1. Soyus sovetskikh pisateley SSSR (Alma Ata). (Biology-Juvenile litera-ture).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APRINGIBLEOUF AND APPROXIMATION OF THE LEGAL OF THE

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

ZVEREY, HAKSIM Dmitriyevich; RUDENSKAYA, L.V., redaktor; SAKHAROVA, N.V.,

REMITTINGSKIY TEDAKTOR; KOZLOVSKAYA, M.D., tekinicheskiy redaktor

[Birds and animals of our country; for extracurricular reading in secondary schools] O ptitsakh i zveriakh nashei rodiny; dlia venklassnogo chteniia uchashchikhsia srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956.

172 p. (MLRA 9:7)

(Russia-Birds) (Russia-Mammals)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

Observations on the fall migration of birds in southeastern Transbaikalia. Ornitologiia no.63470-471 '63. (MIRA 17:6)

 "APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065710005-5

 APPROVED FOR RELEASE: Thursday, September 26, 2002
 CIA-RDP86-00513R002065710005-5

RASHEK, V.L.; RASHEK, V.A.; ZVEREV, M.D., otv. red.; SUVOROVA, R.I., red.; ROROKINA, Z.P., tekhn. red.

[Barsa-Kel'mes State Preserve] Gosudarstvennyi zapovednik "Ostrov Barsa-Kel'mes." Alma-Ata, Izd-vo AN KazSSR, 1963. 90 p. (MIRA 17:3) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, M.D.

Ecology of the Tien Shan black grouse (Trans-Ili Ala-Tau).
Ornitologiia no.5:208-210 '62. (MIRA 16:2)
(Trans-Ili Ala-Tau-Black grouse)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, Makeim Dmitriyevich; MARKOV, N.G., red.; TSYPPO, R.V., tekhn.red.

[Birds and animals of our country; supplementary reading for secondary school students] O ptitsakh i zveriakh nashei rodiny; dlia vneklassnogo chteniia uchashchikhsia srednei shkoly. Izd.2.

Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 174 p.

(HIRA 13:10)

(Animals, Habits and behavior of)

G-2

Inst

: Bondarova, V. I., Zvorov, M. D. : Not given

Titlo

: Exporimental Infection of Foxes and Jackals by Costodo Multicops Multicops. -- Eksperimentalnog zarazhenie lisits i

Orig Pub

: Tr. In-ta zool. AN KazSSR, 1957, 7, 237-240.

Abstract

In fooding larvocystocoenure (?) vesicles from a sheepbrein to 3 jackels, 4 fexes, 3 pups end one bedger, seniriponed M. multicops were found in 2 jackals, 2 pups, and one young fox. The opizootological significance of jackels in spreading sheep econurosis and coenurosis of large hornod cattle is distinguished from foxes, the role of

Card 1/1

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" ZVFREV, M.I.

Standard and durability. Standartizataiia 29 no.9:

(MIRA 18:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.K.

Population census of foreign cities and large unit

Population census of foreign cities and large urban communities having more than 500,000 population. Vop.geog. no.38:232-245 (MLRA 9:9)

(Population -- Statistics)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065710005-5

CIA-RDP86-00513R002065710005-5

Some features of the territorial structure of the Saxonian industry (German Democratic Republic). Vest. Mosk. un. Ser. 5: Geog. 20 no.6:77-79 N-D '65. (MIRA 19:1)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

L 449999660 RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

L 449999660 RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

SOURCE CODE: UR/0181/66/008/00972547/2548

ACC NR: AP6030950 ACC NR: AP6030950 AUTHOR: Bogdankevich, O. V.; Zverev, M. M.; Pechenov, A. N.; Sysoyev, L. A. ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR) TITLE: Recombination radiation of ZnS single crystals excited by fast electrons SOURCE: Fizika tverdogo tela, v. 8, no. 9. 1966, 2547-2548 TOPIC TAGS: solid state laser, zinc sulfide, ultraviolet laser, recombination radiation, electron beam pumping, FLECTRON BEAM ABSTRACT: Laser action was reported in electron-beam-pumped ZnS single crystals with a large forbidden gap. High-purity hexagonal ZnS specimens were soldered with indium to a copper heat sink kept at liquid N temperature (except in the case of some experiments conducted at room temperature). The electron beam was focused on the polished surface of the specimen at right angles to the two polished ends. The emission recorded by a ZMR-3 monochromator and an FEU-18A photomultiplier was observed in the direction perpendicular to the incident beam. Recombination radiation was observed in the ultraviolet region when ZnS was excited by a pulsed beam of 50-kv electrons at current densities up to 6 amp·cm $^{-2}$. At increased current densities (6 amp·cm $^{-2}$ and up) and 80K, emission of a line (14 Å wide) at 3300 Å was predominant. The shapes of the light and current pulses were coincident, which would seem to indicate that the life"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-005138002065710005-5

ACC NR: APPROVED FOR SELECTION OF THE CONTROL OF THE CONT

AUTHOR: Bogdankevich, O.V.; Zverev, M.M.; Krasilnikov, A.I.; Pechenov, A.N.

ORG: Physical Institute, Academy of Sciences of the USSR, Moscov

TITLE: Laser emission in electron-beam-excited ZnSe

SOURCE: Physica status solidi, v. 19, no. 1, 1967, K5-K6

TOPIC TAGS: semiconductor laser, electron beam, pumped laser, zinc compoulo selenide, (ASER FINISSION, LASER PUNIVINE.

ABSTRACT:

Laser action in electron-beam-pumped ZnSe at 4600 Å was observed experimentally. The ZnSe crystals were prepared under high-pressure, gas-phase reaction and subsequent crystallization. The samples were 3 [sk] x 0.5 x 0.8 mm, and the spacing between the cavity mirrors was 0.8 mm. The operating temperature was 100K, rising to 150K during pumping. The experimental samples were pumped by 150-nanosec 45-150 keV electron pulses. Redlight emission was observed at small current densities; blue-line emission at 4570 Å was observed at current densities greater than several amp/cm².

Card 1/2

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Further increases in the current density (threshold value 20 amp/cm²) resulted in a sharp rise in the line (4600 Å) intensity (by a factor of 10), a sharp narrowing of its width (from 70 to 11 Å), and a directional effect. Although the mode structure was not resolved, various radiative directions, with a 7° beam aperture, could be identified. The results indicate that the large threshold densities may be caused by the crystal inhomogeneity and/or a high spontaneous recombination cross section.

[JM]

SUB CODE: 20/ SUBM DATE: 21Nov66/ ORIG REF: CO2/ OTH REF: 001/
ATD PRESS: 5114

APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R00206571005-5

CIA-RDP86-00513R00206571005-5

CIA-RDP8

5/020/65/149/001/017/02 8101/8144

AUTHORS:

Zverev, M. P., Ruchinskiy, S. P., Zuhov, P. I.

TITLE:

Dependence of the heat effects odduring on polymer dissolution on the nature of the solvent

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 1, 1963, 128 - 130

TEXT: The dissolution heat of CKC-50A (SKS-10A) divinyl styrene copolymen and CKH-26 (SKH-26) divinyl nitrile copolymen was determined together with the contraction Av of the solution in ditolyl methane, dicumyl methane, discussed and dibutyl phthalate. The equation = -E₁₁ - E₂₂ +2E₁₂ (1) where E₁₁, E₂₂, E₁₂ respectively denote the invascion of the molecules of the solvent, the polymer and the solvent plane was found to be wrong. The nonpolar JKS-50A showed high heat all in solvents with high dipole noment, the polar SKN-26 showed had in seast affects in the weakly polar intolving thane and lesser heat the solvents of the solvents. Therefrom it is concluded that E₁, (1) and the solvents of the local bonds forming between the macromolecule links in the solution: Card 1/2

Dependence of the hist...

5/020/65/149/001/017/023 B101/B114

 $x = -3_{11} - 3_{22} + 23_{12} + E_{22}^{\dagger}$ (2). The bond between the links is manifest, e... from the contraction of SEN-26 rollston in solvents with high dipole mensor corresponding to colling of the marginal to less in JKH-30A, the into rout what sity terms ses open the dipole moment if the solvent inor . es. The effect of the plassiciar on and flow point is discussed. addition of actolyl methane, dibutyl achaemate or dibutel phthalata re-The triduction the flow point of BES-FCA. Small additions (1.5 %) of in the transfer of the plan of the property of inere are 1 figure and 2 tables.

ASSCCIATION: Moskovskiy institut tonkoy khimichaskay tekhnologii im. V. V. Lomonoseva (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov); Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Thenistry of the Academy of Sciences UDSR)

PRESERVED:

August 20, 1962, by V. A. Kargin, Academician

JUBUITTED: Card 2/2

August 20, 1962

APPROVED FOR RELEASE: Inureday, September 26, 2002 CIA ROPSE; DOS 13R01120657 DODG 55

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA ROPSE; DOST 3R00120657 DODG 55

L 17481-63 EWP (1)/EWT (m)/HDS AFFTC/ASD /C-4 RW

ACCESSICN NR: AP3004759 S/0143/63/000/004/0018/0020

AUTHORS: Michurina, G. A.: Zverev, M. P.; Bychkov, R. Anj Klingnkov, Y. S.

TITLE: Forexulation of polypropylene fibers/ from a polymer solution

SOURCE: Khimichenkiye volokina, no. 4, 1963, 18-20

TOPIC TAGS: polypropylene, polymer.

ABSTRACT: Authors studied several polypropylene properties in solution, their dependence upon the structure of the compound and the temperatures which are within the limits of fiber formulation. The dependence of viscosity in the polymer-solvent system upon the temperature and the intensity of the shift has also been studied. High-boiling hydrocarbons with boiling points between 200 and 2500 were used as solvents. Various polymeric structures were separated by the method described by I. Natta et al (J. Am. Chem. Soc., 77, 1955, 1708). It was found that the polypropylene solutions or stactic and stereotlock-copolymer structures become fluid at various shift intensities and temperatures. The viscosity of the system chances very little between 20 and 800. Fowever, it increases sharply with further increase in temperature, reaching a maximum at 1200. The crystalline structure of the polymer is destroyed between 150 and 1600. The

Card 1/2

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APPROVED FOR RELEASE: Thursday, September 26, 2002. CIA-ROPSE 0051360020657100
L 17481-63
ACCESSION WR. AP3004759

results show that formulation of fibers from solutions of asometic polymers can be accomplished only at temperatures close to the melting point of the polymer. The presence of solvent in the polypropylene fibers at the moment of extrusion results in the production of fibers with better physical and methanical properties.

ASSCOTATION: THITY (All-Union scientific research institute for synthetic fibers)

SUBMITTED: 2734162

DATE ACQ: 20Aug6]

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STB CODE: CH

NO REF SOV: 004

OTHER: 005

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S/069/60/022/006/006/008 B013/B066

AUTHORS:

Zverev, M. P. and Zubov, P. I.

TITLE:

Interaction of Plasticizers With Fillers

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol. 22, No. 6, pp. 756-757

TEXT: In the present letter to the editor the authors report on the determination of the wetting heat of carbon black with plasticizers of different polarity. The following fillers were used: gas-channel black with a specific surface of 110 m² and 4.8% oxygen content, and gas-channel black without oxygen-containing groups with a specific surface of 100 m², which was annealed at 900°C in the hydrogen current. The wetting heat was measured on an adiabatic calorimeter (Ref. 2). The table occurring during the wetting heat obtained. The evolution of heat plasticizers (dibutyl sebacate, dibutyl phthalate) is about twice as high (0.055 cal/m²) as in the wetting with molecules of non-polar plasticizers (0.035 cal/m²). As a result, the surface of the gas-channel black becomes

Card 1/2

Interaction of Plasticizers With Fillers

87769 S/069/60/022/006/006/008 B013/B066

hydrophobic by the incorporation of polar plasticiners. As was shown in Ref. 1, the sorption of macromolecules of divinyl styrene rubber on the surface of the filler is thus increased. It was further found that the evolution of heat during the wetting of fillers which contain no functional groups is practically independent of the dipole moment of the plasticizer. It may be assumed from the data obtained, that the better mechanical properties of filled divinyl styrene rubbers in the presence of polar plasticizers are due to the screening of functional groups of carbon black by polar molecules of the plasticizer. According to the authors, this fact might be of interest in connection with the problem of obtaining oil-filled divinyl styrene rubbers. N. V. Mikhaylov and E. Z. Faynberg are thanked for assistance in the thermochemical experimenta There are 1 table and 2 Soviet references.

ASSOCIATION:

Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry AS USSR). Institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova, Moskva (Institute of Fine Chemical Technology imeni M. V. Lomonosov, Moscow)

SUBMITTED:

May 17, 1960

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

BONDARENKO, V.M.; ZVEREV, M.P.; KLIMENKOV, V.S.; BEREZKINA, T.A.; GERSHANOVICH, Yu.G.

Fiber formation from polypropylene. Khim. volok. no.6:10-13 '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusatvennogo volokna (for Bondarenko, Zverev, Klimenkov). 2. Kurskiy kombinat (for Berezkina, Gershanovich).

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.P.; RUCHINSKIY, S.P.; ZUBOV, P.I.

Thermal effect produced by the solution of polymers as dependent on the nature of the solvent. Dokl.AN SSSR 149 no.1:128-130 Mr '63. (MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im.
M.V.Lomonosova i Institut fizicheskoy khimii AN SSSR.
Predstayleno akademikom V.A.Karginym.
(Polymers) (Heat of solution) (Plasticizers)

ACCESSION NR: AP4039348

8/0183/64/000/003/0015/0019

AUTHOR: Zverev, M. P.; By*chkov, R. A.; Kostina, T. F.; Klimenkov, V. S.

TITIE: Modification of polypropylene fiber properties.

SOURCE: Khimicheskiye volokna, no. 3, 1964, 15-19

TOPIC TAGS: polypropylene fiber, polypropylene polystyrene fiber, polypropylene polystyrene compatibility, IR spectra, deformation, mechanical strength, polymer amorphisation, structure breakdown, relative elongation, isotactic polypropylene, isotactic polystyrene, steric hindrance, structure mobility

ABSTRACT: The compatibility and properties of fibers made of mixtures of polypropylene and polystyrene were investigated. The densities of the polymer mixtures and the contraction were determined. IR spectra were critically examined and thermomechanical properties (deformation, strength) were determined. Increasing the amount of polystyrene in polypropylene caused partial, amorphization of the polymers. The two polymers are not microcompatible, as shown by IR data and the presence of 2 melting regions in mixtures containing over 12 weights polystyrene. The positive value of the amount of contraction is not a criteria for determining

Card | 1/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ACCESSION NR: AP4039348

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microcompatibility. It is proposed that the geometric dimensions of the macromolecules of the initial polymers and the different dimensions of the secondary
structures affect the amount of specific volume contraction. The formation of
defects in the secondary structure of polystyrene is greater than in polypropylene;
a small amount of the latter in polystyrene causes contraction of the polystyrene.
Addition of small amounts of polystyrene caused the polypropylene structure to
break down. Inctreasing the amount of polystyrene in polypropylene reduced the
relative elongation and the mechanical strength of the latter due to the microheterogeneity of the system and the increased hardness of the polypropylene structure. Mixtures of isotactic polypropylene and polystyrene have satisfactory
physical-mechanical properties if the amount of polystyrene does not exceed 12%.
The energy of activation of creep increased with increase in polystyrene content;
this was explained by steric hindrances created by the polystyrene which impede
the mobility of the polypropylene structure. "In conclusion we consider it our
obligation to thank K. S. Minsker for supplying us the isotactic polystyrene."
Orig. art. has: 7 figures and 2 tables.

ASSOCIATION: None

Cord 2/3

"APPROVED FOR RELEASE: Thursday, September 28, 2002 CIA-RDP86-00513R002069710009-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002069710009-5

ACCESSION NR: AP4039348

SURVITTED: LIApr63

SUB CODE: OC NO REF SOV: 008 OTHER: 003

3/3

Card

Card 1/3

S/190/60/002/011/005/027 B004/B060

AUTHORS: Zverev, M. P., Klimenkov, V. S., Kostina, T. F.

TITLE: Dependence of the Thermomechanical Properties of Polypropylene on Its Structural Composition. II

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 11, pp. 1620 - 1624

TEXT: The authors dealt with the problem of the interaction between atactic and isotactic macromolecules of polypropylene. In the article under consideration, they report on the effect of fractional composition on strength relative prolongation, and modulus of elasticity of polypropylene at 30°C. Specimens prepared by Etlis and Minsker, with a propylene at 30°C. Specimens prepared by Etlis and Minsker, with a molecular weight of 120,000, were used for the tests. The atactic fraction was either extracted by means of ether or by means of heptane. A three-dimensional copolymer was obtained in the latter case, whose molecules dimensional copolymer was obtained in the latter case, whose molecules were found to consist of atactic and isotactic links. The production of fibers of different fractional compositions has already been described by the authors in Ref. 3. Tibers elongated by 300% at 30 - 100°C were

Dependence of the Thermomechanical Properties S/190/60/002/011/005/027 of Polypropylene on Its Structural B004/B06C Composition. II

transition from the vitrified to the high-elastic state. V. A. Kargin, T. I. Sogolova, and N. V. Mikhaylov are mentioned. There are 3 figures and 12 references: 8 Soviet, 3 US, and 1 Italian.

ASSOCIATION: Vsssoyuznyy nauchno-issledovatel'skiy institut
iskusstvennogo volokna (All-Union Scientisic Research
Institute of Synthetic Fibers)

SUBMITTED: April 14, 1960

Card 3/3

Dependence of the Thermomechanical Properties S/190/50/002/011/005/027 of Polypropylene on Its Structural B004/B060 Composition, II

investigated here; they consisted 1) of isotactic polypropylene, 2) of 93% isotactic and 7% atactic polypropylene, 3) of 93% isotactic polypropylene and 7% three-dimensional copolymer. The authors reached the following conclusions: 1) Due to recrystallization and orientation, the fiber stability increases with the temperature at which the fibers were elongated. 2) The modulus of elasticity shows a maximum of fibers elongated between 100° and 110°C. The different values of the modulus of elasticity at different polypropylene compositions are explained by the fact that on stretching there occurs, besides re-crystallization, also a translation of crystals without appreciable deformation, so that the atactic structures in-between have an elasticizing effect. The modulus of elasticity of fibers stretched at 100°C was examined between -40° and +120°C, and it was found that a) in the range -40° to -20°C, viz in the vitrified state, the modulus of elasticity is not dependent on the fractional composition; b) on the transition to the high elastic state. the modulus of elasticity varies in dependence on the fractional composition, the fibers with atactic fraction exhibiting greater changes, Crystallinity can be estimated on the basis of these effects on the

Card 2/3

ZVEREV, M.P.; BARASH, A.M.; ZUEGV, F.T.

Heats of precipitation of polyacrylonitrile from solutions. Vysokom. sced. 6 no.6:1012-1015 Ju 164 (MIRA 18:2)

1. Mookovskiy institut tonkoy khimisheekoy tekhnologii imeni Lomonosova. "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

KLIMENKO, V.S.; ZVEREV, M.P.; GHUZDAV, V.A.; BONDARENKO, V.M.; MICHURINA, G.A.

Synthetic fibers based on isotactic polypropylene. Thim. volok. no.4:19-22 '59. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic) (Propene)

ZVEREV, M.P.; ZUBOV, P.I.

The structure of gels. Part 9. The effect of the nature of the plasticizer on the physico-mechanical properties of divinyletyrene rubber. Koll.zhur. 19 no.2:201-203 Mr-Ap 57. (MIRA 10:5)

1.Fisiko-khimicheskiy institut in. L.Ya. Karpova. (Styrene) (Rubber, Synthetic)

ACC NR: AM6033433

Monograph

UR/

Konkin, Aleksandr Arsen yevich; Zverev, Mikhail Petrovich Izd-vo "Khimiyn", 1966. 278 p. Polyolefin fibers (Poliolefinovyye volokna) Moscow.

illus., biblio., index. 3700 copies printed.

TOPIC TAGS: conjugated polyolefin hydrocarbon, synthetic fiber, fiber

PURPOSE AND COVERAGE: This book is intended for scientific and engineering workers in the synthetic fiber industry and in associated branches of industry concerned with synthetic fibers. It can also be used as a textbook by students of chemicalengineering and textile institutes of higher education. The book discusses the besic principles for synthesizing polyolefins (polypropylene and polyethylene) and their most important properties, and describes the effect on the process for producing polyolefin fibers. Also described are the rheological characteristics of ducing polyolefin fibers. polymer melts, the fiber-formation processes and the drawing and thermal fixing of the thread. The properties, means of modification, and possible fields of polyolefin fiber application are examined. Chapters I, II, IV and V were written by M. P. Zverev, and the introduction, Chapters III, VI, and VII by A.A. Konkin. The authors express gratitude to Doctor of Technical Sciences K. Ye. Parepelkin, Candidate of Technical Sciences T. V. Druzhinina and A. Ya. Malin, and to A. R. Gantmakher for their helpful advice. There are 395 references 219 of which are Soviet.

Card 1/2

UDC: 677.494.742.2/.3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" ACC NR AM6033433 TABLE OF CONTENTS (Abridged) Foreword -- 5 Introduction -- 7 Ch. I. Production, structure and properties of polyolefins -- 12 Ch. II. Destruction and stabilization of polyolefins -- 65 Ch. III. Basic mechanisms of the process of fiber flow and formation from polymer melts -- 88 Ch. IV. Formation of polyolefin fibers -- 146 Ch. V. Drawing and separation of polyolefin fibers -- 192 Ch. VI. Properties and fields of application of polyolefin fibers -- 196 Ch. VII. Modifying the properties of polyolefin fibers -- 225 References -- 267 SUB CODE: 07,11/ SUBM DATE: 28May66/ ORIG REF: 188/ OTH REF: 176/ Card

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV. M.P.: MARGARITOVA, M.F.

Polymerization of isoprema with styrene. Ukr.khim.zhur. 24 no.5: 626-628 58. (MIRA 12:1)

1. Dnepropetrovskiy knimiko-tekhnologicheskiy institut imeni Dzerzhin-skogo. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

(Isoprene) (Styrene) (Polymerization)

"APPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"
APPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5" SOURCE CODE: UR/0413/66/000/008/0074/0074 L 04277-67 ENT (h) (A)ACC NR: AP6013273 AUTHORS: Zverev, I. N.; Chernyshov, A. N. TITLE: A method for producing concrete slabs and similar products subject to electric heating. Class 37, No. 180781 SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 8, 1966, 74 TOPIC TAGS: concrete, reinforced concrete, heating ABSTRACT: This Author Certificate presents a method for producing concrete slabs and similar products subject to electric heating between parallel electrodes, with the current passing in the direction of the slab's thickness (see Fig. 1). To manufacture reinforced products and to increase simultaneously the effectiveness of the electric heating, the reinforcement is composed of compounded sections, the separate portions of which are interconnected by dielectric rods.

Card 1/2

UDC: 691.87-427:666.98.035.5.04

Orig. art. has: I figure.

SUB CODE: 13/ SUBM DATE: 15May64

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"Approved for release: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

AMPROVED for release: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

EUZELEV, Mikheil Yekovlevich; SEVORTSOV, Aleksey

Mikolay Hikolayevich; ZOHHU, B.F., kandidat tekhnicheskikh nauk,

Wikolay Hikolayevich; ZOHHU, B.F., kandidat tekhnicheskikh nauk,

rotsenzent; BOHETSKIY, A.A., dotsent, otvetatvennyy redaktor;

VOLFYARSKIY, L.M., inzhener; redaktor; CHCKE, MAN, H.R., inshener,

redaktor; DEMAKOV, A.F., inshener, redaktor; KOKOVINA, A.S., inshener,

redaktor; RESTERIV, B.A., inshener, redaktor; RAZUKOVA, M.S., inshener,

redaktor; SIDOFENKO, R.A., inshener, redaktor; ROZENBERG, I.A., kandi
redaktor; SIDOFENKO, R.A., inshener, redaktor; ROZENBERG, I.A., kandi
redaktor; redaktor; DUOINA, H.A., tekhnicheskiy

redaktor

[Foundry worker's handbook] Spravochnik rabochego-liteishchika.

Izd. 2-os. dop. i perer. Hoskva. Gos. nauchno-tekhn. isd-vo
mashinostroit. lit-ry, 1956. 634 p.

(Founding)

[1] 李月 智·斯尼斯斯[[南斯斯斯斯][1] [[西斯][[西斯][1] [[西斯][[西斯][[西斯][[西斯][]]]]] APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

ZVEREV, I. N.

Rasprostranenie vozmushchenii v viazkouprugom i viazko-plasticheskom sterzhne. (Prikladnaia matermatika i mekhanika, 1950, v. 11, p. 295-302)

Title tr.: The propagation of a disturbance in a visco-elastic and visco-plastic bar.

QA801. P7 1950

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

AUTHOR: Mal'tsev, M. V.; Korozov, L. N.; Zverev, K. P.; Yefremov, Yu. N.

ORG: none

TITLE: Oxidation of beryllium in air at high temperature

70.55, 27

SOURCE: IVUZ. Tsvetnaya metallurgiya, no. 1, 1966, 116-118

TOPIC TAGS: beryllium, beryllium oxidation, oxidation kimetics

ABSTRACT: Disk-shaped beryllium specimens, 16 mm in diameter and 5 mm thick, cut from hot-compacted and extruded beryllium bars which were vacuum annealed at 850C for 2 hr, were tested for oxilation behavior at 300, 400, 600, 800, 900, 950, or 1000C for 0.5, 1, 5, 10, 30, 60, or 120 min. Visual examination revealed no changes in the surface of tested specimens after 120-min testing at temperatures up to 400C; the surface darkened slightly after testing at 600C, and lost brightness after testing at 800C. A thick white layer easily separated from the surface was formed within 5 min at 100C. The weight gain (see Fig. 1) in the first period of testing is

Card 1/2

UDC: 669.725:669.094.3

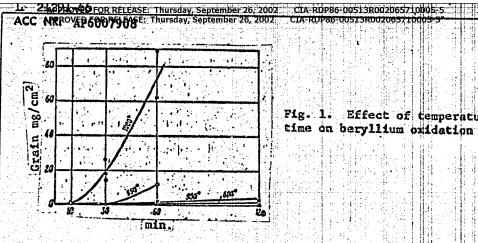
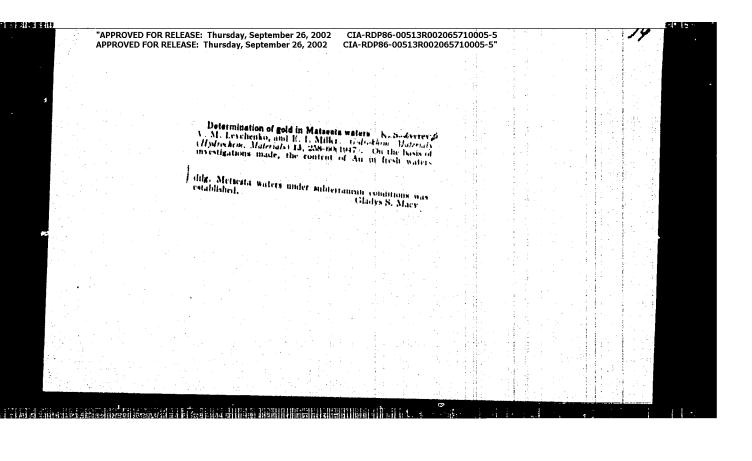
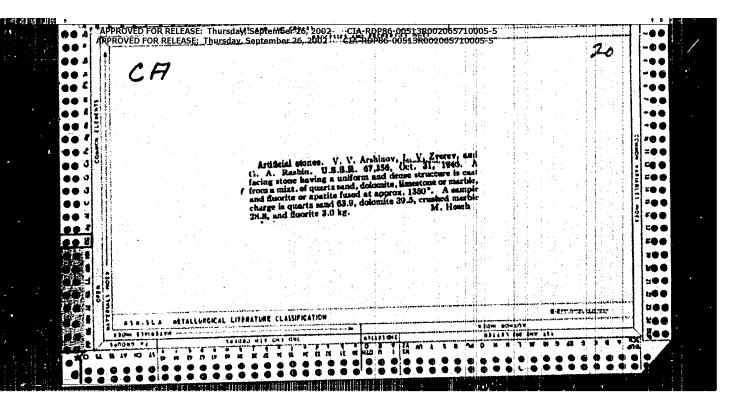


Fig. 1. Effect of temperature and heating time on beryllium oxidation

insignificant because the first oxide film formed protects against oxidation up to 600C. Electron-diffraction analysis showed that no oxide film forms on specimens tested at 300C for 2 hr. Beginning with 400C, an oxide film begins to form. The oxide and the beryllium monoxide have a hexagonal lattice with parameters a = 2.694 Å and c = 4.392 Å. The oxide formed at 600, 800, or 1000C has a coarse-; grained structure; the grain size increases with increasing temperature and holding time. Orig. art. has: 2 figures. [AZ] Fr no

SUB CODE: 11,07 SUBM DATE: 200ct64/ OTH REF: 002/ ATD PRESS: 4221





TAPPROVED FOR RELEASE! Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

TRESTERING FOR RELEASE! Thursday, September 26, 2002 CIA-RDP86-00513R00206571005-5

TRESTERING FOR RELEASE CONTROL FOR RELEAS

[Technology of preparing steel castings] Tekhnologiia izgotovleniia stal'nykh otlivok. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1958. 255 p. (MIRA 11:4) (Steel castings)

"Peat briquetting in the USSR."

Report submitted for the 2nd International Peat Congress, Leningrad, 15-22 Aug 63.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR DELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

AZAROV, E.K., red.; PRESNOVA, V.A., tekhn. red.

[Profit of an industrial enterprise] Rentabel'nost' promyshlennogo predpriiatiia. Leningrad, Lenizdat, 1961. 28 p. (MIRA 15:2)

(Leningrad-Industrial management)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" GOROZHANINOV, N.Ye.; ZVEREV, L.I.

· Crane tracks free of joints in plants of a metallurgical combine. Stal' 21 no.5:477-478 My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut po stroitel'stvu v g.Sverdlovske Akademii stroitel'stva i arkhitektury SSSR i Nizhne-Tagil'skiy metallurgicheskiy kombinat.

(Metallurgical plants-Equipment and supplies)

(Cranes, derricks, etc.)

GOROZHANINOV, N.Ye., kand. tekhn. nauk; GARYAYEV, A.L., inzh.; ZVEREV, L.I., inzh.

> Submerged melt welding of the rails of crane tracks. Svar. proizv. no.9:35 S 165. (MIRA 18:9)

- Ural'skiy "Promstrovniiproyekt" (for Geroshaninev).
 Magnitegorskiy metallurgicheskiy kombinat (for Garyayev).
 Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Zverev).

CIA-RDP86-00513R002065710005-5 26, 2002 CIA-RDP86-00513R002065710005-5" eptember 26, 2002 8/181/60/002/010/049/051 B019/B056 M. M., and Shur, M. Ta. On the Contour of the Exciton Absorption Bands in Cuprous 24.7700 (1043,1143,1559) Fizika tverdogo tela, 1960, Vol. 2, No. 10, pp. 2643 - 2646 TEXT: In the introduction the results obtained by investigations of the anarotion spectral of the absorption spectral or the absorption spectral or the absorption spectral or or the absorption of the absorption AUTHORS: TEXT: In the introduction the results obtained by investigations of the absorption spectra, and Yearly of the absorption of the absorption of the absorption and Yearly optical properties of crystals, especially of the present paper experimentally of the discussed. Among others, E. I. Rashba, A. S. Davydov, and Yearly optical properties of the present paper experimentally are discussed. Among others, E. I. Rashba, A. S. Davydov, and Yearly optically of the present paper experimentally of the paper experimentally of the present paper experimentally of the present paper experimentally of the paper TITLE: Gross are mentioned. The authors of the present paper experimentally series of exinvestigated the contour of the second band of the yellow series at investigated the contour of thin cuprous oxide single crystals at citon absorption bands and of thin cuprous oxide single crystals. PERIODICAL: investigated the contour of the second band of the yellow series at oxide single crystals at other bands and of thin cuprous oxide single carried out temperatures of from 4.2 - 190°K. The measurements were carried temperatures of from 4.2 - 190°K. citon absorption bands and of thin cuprous oxide single crystals at on temperatures of from 4.2 - 190°K. The measurements with high dispersion and the type A&C-4 (DFS-4) with high dispersion and type A&C-4 (DFS-4) with high di temperatures of from 4.2 - 190°K. The measurements were carried out on with high dispersion of the type ApC-4 (DFS-4) with high dispersion a diffraction spectograph of the three samples investigated had a thick and photoelectric recording. The three produced from thin and photoelectric respectively. and were produced from the ness of 9. 30. and 110 u. respectively. and photoelectric recording. The three samples investigated had a thick-ness of 9, 30, and 110 µ, respectively, and were produced from the copper foils by oxidation in air at 1030°C. The contours of the exciton -a 1/3

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On the Contour of the Exciton Absorption Bands in Cuprous Oxide

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absorption bands (n = 2) in all three samples investigated showed good agreement. The maximum absorption coefficient was measured at 77.30K as amounting roughly to 180 cm⁻¹. The temperature dependence of the exciton absorption line width is graphically represented in Fig. 1, and from the contour of the absorption line showed in Fig. 2 the good agreement of the measured results with those obtained from the formula (1) given by Toyozawa (Ref.3) for the absorption coefficient may be recognized. Thus, the opinion expressed by Toyozawa that the broadening of the exciton absorption lands is caused by the exciton-phonon interaction, is confirmed. Furthermore, it is also confirmed that the lifetime of the photoexcitons at temperatures below 550K is principally determined by zero-vibrations of the lattice. From the good agreement between the experimental data with the theory, the conclusion may be drawn that only the acoustic branch of the lattice-vibration spectrum plays an essential part in excitor-phonon interaction. The authors thank N. V. Volkenshteyn for his assistance in the experiments and G. G. Taluts for discussing the results obtained. There are 2 figures and 10 references: 5 Soviet, 4 US, and 1 German.

Card 2/3

Photomagnetoelectric effect and zone structure in copper oxide. Fiz.tver.tela 3 no.11:3556-3558 N '61. (MIRA 14:10)

1. Ural'skiy gosudarstvennyy universitet im. A.M.Gor'kogo, Sverdlovsk.

(Photomagnetic effect) (Copper oxide)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R00206571005-5 CIA-RDP86-00513R002065-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP86-0051005-5 CIA-RDP8

24.2600

SOV/139-59-2-6/30

AUTHORS:

Zverev, L.P., Noskov, M.H. and Shur, M.Ya.

TITLE:

The Effects of an Electric Field on the Spectral Response Curve for Photoconductivity in Cuprous Oxide

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy, Fizika, 1959, Nr 2, pp 39-42 (USSR)

ABSTRACT:

Polycrystalline Cu₂O is used at 77°K in this work. The spectral response is examined at high dispersion (6 Å/mm) with a grating spectrograph and the absorption spectra are also recorded. Only two field strengths (300 and 6000 V/cm) are used. Fig 1 shows spectral response curves (uncorrected for the energy distribution in the exciting spectrum); the wavelength scale is in mm; Fig 2 shows a small region at higher resolution. Fig 3 shows the effect of the field for one specimen; curve I relates to 300 V/cm and curve II to 6000 V/cm. The first exciton line occurs in absorption at 612.53 mm but it can be detected only in thick specimens; it is not seen in Fig 4b. (Fig 4a is merely Fig 3 on a larger scale.) Figure 4c is at the top right and relates to 6000 V/cm; Fig 4b is at the bottom right (300 V/cm). The second and third exciton lines lie at 579.2 and 575.6 mm respectively

Card 1/2

9,4178 (1035,1114,1482)

0808 | S/181/61/003/011/056/056 | В109/В102

AUTHORS:

Zverev, L. P., Noskov, M. M., and Shur, M. Ya.

TITLE:

Photomagnetoelectric effect and band structure in cuprous

oxide

PERIODICAL: Fizika tverdogo tela, v. 3, no. 11, 1961, 3556-3558

TEXT: Owing to the lack of an appropriate monochromatic light source the spectral behavior of the photomagnetoelectric effect (PME) could so far not be sufficiently studied. These difficulties could be overcome by using a β -3 (D-3) lamp with strong monochromators (pass band 15 to 40%). The measurements were made with 150-300-micron thick cuprous oxide platelets

at 77°K in 25-koe fields between 4000 and 7000 Å. In this case the dark conductivity was much lower than photoconductivity. Fig. 1 shows the measurement results which clearly indicate three spectral ranges: (1) No

PME occurs above 5800 Å. This can be explained by the fact that electrons are produced in the polaron state. As compared to the free electrons their mobility is lower and their diffusion length is shorter. (2) Card $1/\sqrt{2}$

30808 S/181/61/003/011/056/056 B109/B102

Photomagnetoelectric effect and band ...

Between 5800 and 4900 A the PME is due to the production of free carriers. Its monotonic rise is determined by the dispersion of the absorption coefficient and the quantum yield of the internal photoeffect. (3) Below 4900 A the behavior of the PME corresponds to the wavelength dependence

4900 A the behavior of the PME corresponds to the wavelength of of the PME near the fundamental absorption edge, which is typical of semiconductors. This phenomenon is connected with the abrupt increase of semiconductors. This phenomenon is connected with the abrupt increase of the diffusion length, in this case determined by the electron parameters, the diffusion length, in this case determined by the electron parameters, the diffusion characteristics are produced. The electrons with other diffusion characteristics are produced. The conduction band splitting in Cu₂0 was suspected already by S. A. Moskalenko (FTT, 2, 1755, 1960). Also the data by I. Pastrnyak, P. A. Moskalenko (FTT, 2, 1755, 1960). Also the data by I. Pastrnyak, P. A. Titov (FTT, 3, 861, 1961), I. Pastrnyak (FTT, 1, 971, 1959), A. L. Rvachev (ZhTF, 28, 45, 1958), and N. B. Gornyy (ZhETF, 35, 281, 1958) speak in favor of this assumption. The authors thank I. M. Tsidil'kovskiy for discussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. There are 1 figure and 9 references: 7 Soviet and 2 nondiscussions. The two references to English language publications read as follows: I. Kikoni, M. Noskov. Nature, 151, 725, 1933; W. Gartner. Phys. Rev., 105, 823, 1957.

card 2/4/3

30808 S/131/61/003/011/056/056 Photomagnetoelectric effect and band ... blog/B102

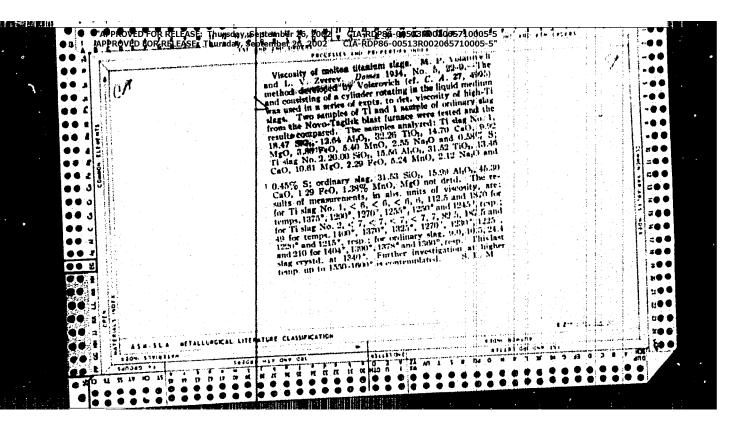
Ural'skiy gosudarstvennyy universitet im. A. M. Gor'kogo Sverdlovsk (Ural State University imeni A. M. Gor'kiy Sverdlovsk) ASSOCIATION:

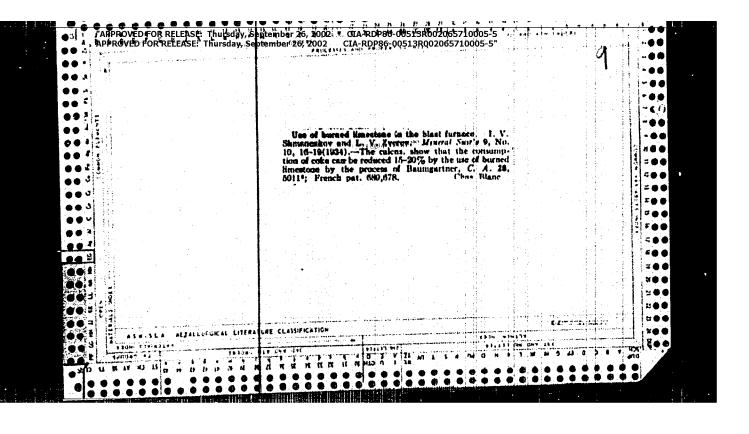
SUBMITTED:

August 25, 1961

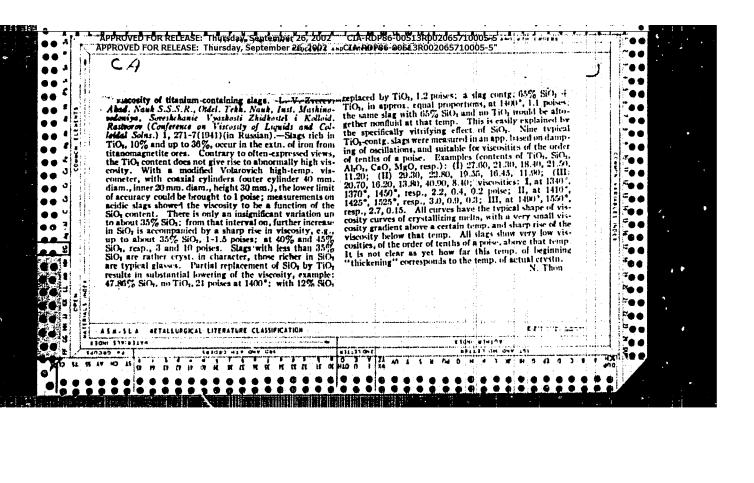
Fig. 1. Spectral dependence of the photoconductivity (6) and of the short-circuit current of the PME (α, β) for Cu_2O .

Legend: (1) I short-circuit current; $\epsilon_{\rm ph}$, photoconductivity in arbitrary units; ℓ is the first part of curve α on an enlarged scale.





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Geography and Geology

Requirements of industry as to the quality of mineral raw materials. Handbook for geologists--Moskva, Gos. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SNK SSSR, No. 24, Manganese, 1947.

Monthly List of Russian Accessions, Library of Congress, October, 1952. UNCLASSIFIED.

Application of the state of the

CHERNYAK, Abram Samuilovich; IVANOVSKIY, M.D., prof., retsensent; ZVEREV, L.V., kand. tekhn. nauk, otv. red.

[Chemical dressing of ores] Khimicheskoe obogashchenie rud. Moskva, Nedra, 1965. 201 p. (MINA 18:9) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

ACC NR: AT7007280

(N)

SOURCE CODE: UR/3249/66/000/013/0027/0034

AUTHORS: Zverev. L. V.; Petrova, N. V.; Murali, G. N.; Makarova, N. P.

ORG: none

がない かいき

TITLE: The use of water-soluble amines in treating tantalum-niobium materials

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Mineral'noye syr'ye, no. 13, 1966. Obogashcheniye i pererabotka mineral'nogo syr'ya (Concentration and processing of minerals), 27-34

TOPIC TAGS: metallurgy, tantalum compound, niobium compound, amine

ABSTRACT: The authors have found that the use of oxalic acid or hydrogen peroxide in forming Ta and Nb complexes is unsatisfactory because of instability and other factors. The use of water-soluble amines is suggested. The present paper outlines the optimal conditions for leaching Nb and Ta from sulfate cake by using as complexing agents methylamine, monoethanolamine, and trie+hanolamine. Columbite concentrates were not in the test. The technique found to be most satisfactory is the following. One part (by weight) of the concentrate is added to 2.5-3 parts of H₂SO₁, the mix is held for two hours at 350C. The material is then washed with water and treated with methylamine for 30 minutes at 40C. The Nb and Ta are now in solution and may be removed. Neutralization with a weak mineral acid precipitates Nb and Ta pentoxides

Card 1/2

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ACC NR: AT7007280 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

(with a purity of 99%). After the precipitate is filtered off, the amine may be regenerated by addition of CaO, which combines with the sulfate radical to form CaSO₄. This may be removed, and the pure amine is ready for re-use in the process. Orig. art. has: 8 figures and 6 tables.

002

SUB CODE: 11/ SUBM DATE: none/ ORIG REF: 006/ OTH REF:

Card 2/2

ZVEREV, L.V.; YELFIMOV, 1.1.

Chlorination of circonium in the melt of chlorides. Min.syr'e no.9: .6-24 '63. (MIRA 17:10) Extraction of niobium by trictylamine from sulfuric acid solutions. Min.syr'e no.9:25-31 '63. (MIRA 17:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

MILOVANOV, G.N.; CHERNOSVITOV, Yu.L.; GINZBURG, A.I., nauchnyy red.;
YERSHOV, A.D., glavnyy red.; ZVEREV, L.V., red.; ZUBAREV, H.H., red.;
KREYTER, V.M., red.; MOXROUSOV, V.A., red.; SOLOV'YEV, D.V., red.;
KHRUSHCHOV, N.A., red.; SHMANKHKOV, I.V., red.; IZRAILEVA, G.A.,
red.; ZVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw material; hardoock for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gos.nauchnotekhn.izd-vo lit-ry po geol. i okhrane nedr. No.51. [Rare earth elements] Redkozemel'nye elementy. Izd.2., perer. 1959. 58 p. (MIRA 12:12)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Rare earths)

ZVEREV, L.V.; KONTOROVICH, G.I.; CHERNYSHEV, G.B., naudhnyy red.; STOLYAROV, A.G., red.izd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gosgeoltekhizdat. No.24. [Manganese] Marganets. 1960. 57 p.
(MIRA 16:3)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ia.

(Manganese)

ZVEREV, L.V.; SMIRNOVA, N.N.; FILIPPOVSKAYA, T.B.

Solubility of rock-forming silicate minerals in sulfuric acid solutions. Min.syr'e no.4:134-147 '62. (MIRA 16:4) (Silicates) (Sulfuric acid)

BENESLAVSKIY, S.I.; GORETSKIY, Yu.K.[deceased]; ZVEREV, L.V.; SOSHNIKOVA, M.S., nauchnyy red.; GRISHINA, T.B., red. izd-va; RYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Moskva, Gosgeoltekhizdat. No.35. [Aluminum] Aliuminii. 1962. 59 p. (MIRA 15:7)

1. Moscow. Vsesoyuznyy nauchnyy nauchno-issledovateliskiy institut mineralinogo syriya.

(Aluminum)

GLAZKOVSKIY, A.A.; KRUTOV, G.A., nauchnyy red.; ZVEREV, L.V., nauchnyy red.; MATIS, T.I., red. izd-va; BYKOVA, V.V., tekhn. red.

[Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral nogo syr'ia; spravochnik dlia geologov. Moskva, Gos. nauchnotekhn. izd-vo lit-ry po geol. i okhrane nedr. No.55.[Cobalt] Kobal't. Nauch. red. G.A.Krutov i L.V.Zverev. Izd.2., perer. 1961. 49 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Cobalt)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065710005-5
CIA-RDP86-00 glavnogo red.; SHMANENKOV, I.V., zam.glavnogo red.; KALMYKOV, G.S., nauchnyy red.; GINZBURG, A.I., red.; ZYEREV, L.V., red.; ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; FEDOROVA, L.N., red.izd-va; IVANOVA, A.G., tekhn.red.

> [Industry's requirements as to quality in mineral raw materials; a hardbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gecl. i okhrane nedr. No.66. [Coal] Ugol. Nauchn.red.G.S.Kalmykov. 1960. 110 p. (MIRA: 14:6)

> 1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Coal)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
VINOGRADOV, S.S.; ZUBAREV, N.N., nauchnyy red.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L., zam. glav. red.; SHMAHENKOV, I.V., zam. glav. red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; MOKROUSCV, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV, A.T., red.; KHRUSHCHOV, N.A. red.; LYUBCHENKO, Ye.K., red. izd-va; BYKOVA, V.V., tekhn.red. [Industry's requirements as to the quality of mineral raw materials] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geologii i okhrane nedr. No.10[Limestones Izvestniaki. Nauch. red. N.N. Zubarev. 1961, 61 p. (MIRA 14:10)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Limestone)

BUTKEVICH, T.V.; YERSHOV, A.D., glav. red.; CHERNOSVITOV, Yu.L., zamestitel' glav. red.; SHMANEHKOV, I.V., zamestitel' glav. red.; GINZBURG, A.I., red.; ZVERRY, L.Y., red.; ZUBARRY, H.N., red.; MOKROUSOY, V.A., red.; SOLOV'YEV, D.V., red.; TROYANOV, A.T., red.; KHRUSHCHEY, N.A., red.; STEPANOY, I.S., nauchnyy red.; ROZHKOVA, L.G., red. izd-ve; IYERUSALIMSKAYA, Ye.S., tekhn. red.

> [Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniis promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd. 2., perer. Moskva, Gos. nauchno-tekhn. izd-vo lit- ry po geol. i okhrane nedr. No. 43. [Tungsten] Vol'fram. 1960. 61 p. (MIRA 14:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral'nogo syr"ya.

(Tungsten)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

CIA-RDP86-00513R0020657 LEVIUSH, I.T., red.; MOKROUSOV, V.A., red.; PODKOSOV, L.G., red.; ROZHKOVA, Ye.V.; SOLOV'YEV, D.V., red.; FEDOROV, F.N., red.; FINKEL'SHTEYN, I.D.; KHONINA, O.I., red.; CRISHINA, T.B., red. izd-va; GUROVA, O.A., tekhm. red.

[Studies on the dressing and industrial processing of minerals] Issledovanija po obogashcheniju i tekhnologij poleznykh iskopaemykh. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol. i okhrane nedr, 1961. 131 p.

1. Russia(1923- U.S.S.R.) Ministerstvo geologii i okhrany nedr. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya (for Eygeles, Leviush) (Ores)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

PETROVSKAYA, N.V.; KLIMENKO, N.G.; GINZBURG, A.I., nauchnyy red.;
YERSHOV, A.D., glavnyy red.; CHERHOSVITOV, Tu.L., zam. glavnogo
red.; SHMANENKOV, I.V., zam.glavnogo red.; ZVEHEV, L.V., red.;
ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKRCUSOV, V.A., red.;
SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOMEROV, A.G.,
red.1zd-va; IVANOVA, A.G., tekhn.red.

[Industrial requirements for the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.71. [Selenium and tellurium] Selen i tellur. Nauchn.red. A.I. Ginzburg. 1960. 45 p. (MIRA 14:1)

1. Hoscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. (Selenium ores) (Tellurium ores)

RAMZES, B.Ya.; ZUBAREV, H.N.; CHERNOSVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; SHMAHENKOV, I.V., zam.glavnogo red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KREYTER, V.M., red.; MOKROUSOV, V.A. red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; IZRAILEVA, G.A., red.izd-va; BYKOVA, V.V., tekhn.red.

[Industrial specifications for the quality of raw minerals; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva.
Gos.nauchno-tekhn.izd-vo lit-ry po geologii i okhrane nedr. Mo.2.
[Quartz sand] Pesok kvartsevyi. Nauchn.red. IU.L. Chernosvitov.
1955. 55 p. (MIRA 13:7)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral nogo syr'ya.

(Sand)

BORZUNOV, V.M.; PKTROV, V.P., nauchnyy red.; YERSHOV, A.D., glavnyy red.; CHERHOSVITOV, Yu.L., zem.glavnogo red.; SHMANIZIKOV, I.V., zem. glavnogo red.; GINZBURG, A.I., red.; ZVERKY, L.V., red.; ZUBAREV, N.N., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOLYAROV, A.G., red.; zd-va; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.12. [Feldspars] Polevoshpatovos syr's. Nauchn.red. V.P.Petrov. 1960. 25 p. (MIRA 1319)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skly institut mineral'nogo syr'ya.

(Feldspar) STEPANOV, I.S.; CHERNOSVITOV, Yu.L., nauchnyy red.; YERSHOV, A.D., glavnyy red.; GINZBURG, A.I., red.; ZYEREV, L.V., red.; ZURAREV, N.M., red.; KRETTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YNV, D.V., red.; KHRUSHCHOV, N.A., red.; SHMANENKOV, I.V., red.; STOLYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral nogo syria; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.46. [Rubidium and cesium] Rubidii i tsezii. Nauchn.red. IV.L. Chernosvitov. 1960. 33 p. (MIRA 14:2)

1. Moscow. Vsesoyuznyy nauchno-issledovetel'skiy institut minerel'nogo syr'ya. (Rubidium) (Cesium) VESELOVSKIY, V.S.; BERLING, N.I., nauchnyy red.; YERSHOV, A.D., glavnyy red.; CHERNOSVITOV, Yu.L., zam.glavnogo red.; SHMANEUKOV, I.V., zam. glavnogo red.; GINZBURG, A.I., red.; ZYEREY, L.V., red.; ZUBAREY, N.N., red.; KREYYER, V.M., red.; MOKROUSOV, V.A., red.; SCLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; STOLYAROV, A.G., red.; IVANOVA, A.G., tekhn.red.

[Industry's requirements as to the quality of mineral raw materials; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineral'nogo syr'ia; spravochnik dlia geologov. Izd.2., perer. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr. No.3. [Graphite] Grafit. Nauchn.red. N.I.Berling. 1960. 44 p. (MIRA 13:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel skiy institut mineral'nogo syr'ya. (Graphite) APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

CHERNOSVITOV, Yu.L.; KONSTANTINOV, M.M., neuchnyy red.; YERSHOV, A.D., glavnyy red.; SHMANEHKOV, I.V., zam.glavnogo red.; GINZBURG, A.I., red.; ZVEREV, L.V., red.; KREYTER, V.M., red.; MOKROUSOV, V.A., red.; SOLOV'YEV, D.V., red.; KHRUSHCHOV, N.A., red.; NEKRASOVA, N.B., red.; red.; IVANOVA, A.G., tekhn.red.

[Industrial requirements for the quality of raw minerals; handbook for geologists] Trebovaniia promyshlennosti k kachestvu mineralnogo syr'ia; spravochnik dlia geologov. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po geol. i okhrane nedr. No.67. [Uranium] Uran. Nauchn.
red.M.M.Konstantinov. Izd.2., perer. 1959. 65 p. (MIRA 13:1)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya.

(Uranium)

A New Method for the Determination of Legal Sulphides in Ores ELEASE: Thursday, September 26, 2002 Zverev, L.V., Petrova, N.V. (Novy metod opredeleniya suli fidnogo cleva v rudakh). Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1403-1405 (USSR) The methods hitherto published in the USSR Martioned above are based AUTHORS: The methods nather to published in the USSK Martioned above are to upon the property of the lend sulphides of dissolving nethods developed by methods developed by the lend sulphides of dissolvent by methods developed by the lend sulphides of dissolvent by the lend sulphides dissolvent whilst lead oxides remain undissolved. The methods developed by Hirsch. Dolinivo Dobrown 1: skiv (Kilmanko) and Stander are committed. TITLE: whilst lead oxides remain undissolved. The methods developed by Hirsch, Dolinivo) Dobrovol'skiy (Klimeriko) and Sidorkin are compared to be faulty with one another and eventually all three are all three are another and eventually all three are all t mirson, normally all three are declared to be faulty with one another and eventually all three are declared to he contained in this paper. PERIODICAL: with one another and eventually all three are declared to be laury in this paper. As is stated here, practical results can be obtained in this case by the ambigation of objective (and), by discontinuing in this case by the ambigation of objective (and). in this case by the application of chloring (gas), by dissolving in this case by the application of chloring termellowide with a slittle chlorinated lead sulphides in carbon termellowide with a slittle chlorinated in this case by the application of chloring (gas), by dissolving the chlorinated lead sulphides in carbon tetrachloride with a slight chlorinated lead sulphides in carbon tetrachloride when remaining ABSTRACT: the chromated read surphides in carpon tetrachioride with a six addition of elementary sulphur and the lead oxide here remaining unchanged and undiscoluted. In the curther course of the monk in addition or elementery sulphur and the Lead oxide here remaining unchromed and undissolved. In the further course of the Work it is, unchromed and unclassorved. In the further course of the work it is however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming in this case by broming however, recommended to replace chroming however. nowever, recommended to replace chroming in this case by promine tion, which is supposed to facilitate the process of analyzation to considerably. The process of analyzation is described and the recion, which is supposed to ractilibre the process of analyzation is described and the reconsiderably. The process of analyzation is described and the recults sults are shown in a table another table commerce the recults considerably. The process of analytation is described the results sults are shown in a table. Another table compares the results obtained according to the methods by Himsh Bolinows-Bohmani. sults are snown in a table. Another table compares the results obtained according to the methods by Hirsch, Dolinovo-Dobrovol'ship Card 1/2

with the method suggested here. Examples: at a 20,03% content of Sn in quartz ore: 1,92% dissolved and 18,15% undissilved was obtained in case I; 2,07% dissolved and 17,96% undissolved was obtained case II; 0,015% sulphide with 20.00% oxide of Sn was obtained in case III (according to the method suggested). There are 2 tables and case III (according to the method suggested). There are 2 tables and 6 Slavic references.

ASSOCIATION: All-Union Institute for Mineral Raw Materials (Vsessyuznyy institut AVAILABLE:

Library of Congress

Card 2/2 1. Ores-Lead sulfides-Determination "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 RUSANICS -00513R002065710005-5

All-Union conference on laboratory methods of studying ores and minerals of rare and trace elements. Sov. geol. no.61:158-166 57.

(MIRA 11:4)

1. Vsesoyuznyy institut mineral'nogo syr'ya.
(Mineralogy--Congresses)

137-58-5-9289

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 72 (USSR)

AUTHOR: Zverev, L.V.

TITLE: Speiss Smelting of Lean Cobalt Ores (Playka bednykh kobal tovykh rud na shpeyzu)

PERIODICAL: Byul. Tsentr. in-t inform. M-va tsvetn metallurgii SSSR, 1957, Nr 6, pp 15-16

A method of speiss smelting of lean Co ores at increased ABSTRACT: temperatures, in a mildly reducing atmosphere, and on slags with small Fe content was investigated under laboratory conditions. The loss of Co in the slags is a direct and well-defined function of the degree of Fe transition into the slag. By employing speiss smelting followed up by two stages of concentra. tion smelting of ore, in which the Co/Feratio is equal to 0.065, it is possible to obtain a speiss product in which this ratio is equal to 2.14. Co losses in the waste slags are less than 10%. The smelting was conducted at a temperature of 1420-1500°C. An addition of CaF2 (3%) improves the progress of the process by lowering the viscosity of slags. Results of laboratory smelting of ores with various Co content are shown. Card 1/1 G.S. 1. Cobalt ores--Processing

2. Slags--Properties

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR APP

[Alma-Ata nature calendar] Kalendar' Alma-Atinskoi prirody. Alma-Ata, Kazakhskoe gos. izd-vo khudozh. lit-ry, 1955. 15 p.

(Alma-Ata Province--Nature) (MIRA 11:8)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

Science

Traveling animals; series "For the young reader".

Irkutsk, Irkutskoe obl. gos. izd-vo, 1951.

Monthly List of Russian Accessions, Library of Congress, November, 1952. UNCLASSIFIED.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002

ZVEREV, M.

HUMANIA CARANA SEPTEMBER 26, 2002

Ingratitude.Vekrug sveta ne.12:49 D 155. (HIRA 9:4)

(Hunting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, M., inzhener; KAIAFATOV, P., inzhener.

Narrew-range loading units. Mast. ugl. 5 ne.9:24-25 S '56. (Coal mining machinery) (MIRA 9:10)

Monthly List of Russian Accessions, Library of Congress,

Monthly List of Russian Accessions, Library of Congress,

Monthly List of Russian Accessions, Library of Congress,

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.; NIKOL'SKIY, P.

Naturalist's notes. IUn. nat. no.8:37-38 Ag '58.

(Kazakhstan--Birds--Habits and behavior)
(Animals, Habits and behavior of)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

"Chemistry and technology of the production of nitron fibers" by
A.B.Pakshver, B.E.Geller. Reviewed by M.Zverev. Khim.volok. no.6:

(Textile fibers, Synthetic) (Acrylonitrile polymers)

(Pakshver, A.B.) (Geller, B.E.)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
DOROKHINA, I.; ZVEREV, M.

Development of processes for obtaining fibers from polypropylene.

Khim volok. no.5:77-78 '61. (MIRA 14:10)

(Textile fibers, Synthetic) (Polypropylene)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 ZVEREV, M.

It changed from night to day. IUn. nat. no.1:36-37 Ja '62. (MIRA 15:1) (Foxes)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00510005-5 CIA-RDP86-00510005-5 CIA-RDP86-00510005-5 CIA-RDP86-00510005-5 CIA-RDP86-00510005-5 CIA-RDP86

Zverev. M. D. - "Problem of the running speed of certain animals," Trudy Almant. gos. zapovednik, Issue 7, 1948, p. 153

SO: U-4934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5" ZVRR:V, III D. CIA-RDP86-00513R002065710005-5"

Zverev. M. D.- "The problem of feeding the Tyan!-Shan titmouse," Trudy Almaat. gos. zapovednika, Issue, 7, 1918,

SO: U-h934, 29 Oct 53, (Letopis 'Zhurnal 'nykh Statey, No. 16, 1949).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5" CIA-RDP86-00513R002065710005-5"

Birds of Frey

Is the sense of smell edveloped in predatory birds? Prirods 41 No. 7, 1952.

Monthly List of Russian Accessions. Library of Congress. November 1952. UNCLASSIFIED

"ARPROVED FOR RELEASE, Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

Arrors in biology in chilien's science-fiction. Bat. v shkole no.3:84-89
My-Je '53. (MLHA 6:5)

1. Soyus sovetskikh pisateley SSSR (Alma Ata). (Biology-Juvenile litera-ture).

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APRINGIBLEOUF AND APPROXIMATION OF THE LEGAL OF THE

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

ZVEREY, HAKSIM Dmitriyevich; RUDENSKAYA, L.V., redaktor; SAKHAROVA, N.V.,

REMITTINGSKIY TEDAKTOR; KOZLOVSKAYA, M.D., tekinicheskiy redaktor

[Birds and animals of our country; for extracurricular reading in secondary schools] O ptitsakh i zveriakh nashei rodiny; dlia venklassnogo chteniia uchashchikhsia srednei shkoly. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniia RSFSR, 1956.

172 p. (MLRA 9:7)

(Russia-Birds) (Russia-Mammals)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5

Observations on the fall migration of birds in southeastern Transbaikalia. Ornitologiia no.63470-471 '63. (MIRA 17:6)

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RASHEK, V.L.; RASHEK, V.A.; ZVEREV, M.D., otv. red.; SUVOROVA, R.I., red.; ROROKINA, Z.P., tekhn. red.

[Barsa-Kel'mes State Preserve] Gosudarstvennyi zapovednik "Ostrov Barsa-Kel'mes." Alma-Ata, Izd-vo AN KazSSR, 1963. 90 p. (MIRA 17:3) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, M.D.

Ecology of the Tien Shan black grouse (Trans-Ili Ala-Tau).
Ornitologiia no.5:208-210 '62. (MIRA 16:2)
(Trans-Ili Ala-Tau-Black grouse)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

ZVEREV, Makeim Dmitriyevich; MARKOV, N.G., red.; TSYPPO, R.V., tekhn.red.

[Birds and animals of our country; supplementary reading for secondary school students] O ptitsakh i zveriakh nashei rodiny; dlia vneklassnogo chteniia uchashchikhsia srednei shkoly. Izd.2.

Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1960. 174 p.

(HIRA 13:10)

(Animals, Habits and behavior of)

G-2

Inst

: Bondarova, V. I., Zvorov, M. D. : Not given

Titlo

: Exporimental Infection of Foxes and Jackals by Costodo Multicops Multicops. -- Eksperimentalnog zarazhenie lisits i

Orig Pub

: Tr. In-ta zool. AN KazSSR, 1957, 7, 237-240.

Abstract

In fooding larvocystocoenure (?) vesicles from a sheepbrein to 3 jackels, 4 fexes, 3 pups end one bedger, seniriponed M. multicops were found in 2 jackals, 2 pups, and one young fox. The opizootological significance of jackels in spreading sheep econurosis and coenurosis of large hornod cattle is distinguished from foxes, the role of

Card 1/1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" ZVFREV, M.I.

Standard and durability. Standartizataiia 29 no.9:

(MIRA 18:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.K.

Population census of foreign cities and large unit

Population census of foreign cities and large urban communities having more than 500,000 population. Vop.geog. no.38:232-245 (MLRA 9:9)

(Population--Statistics)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065710005-5

CIA-RDP86-00513R002065710005-5

Some features of the territorial structure of the Saxonian industry (German Democratic Republic). Vest. Mosk. un. Ser. 5: Geog. 20 no.6:77-79 N-D '65. (MIRA 19:1)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

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L 449999660 RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5

SOURCE CODE: UR/0181/66/008/00972547/2548

ACC NR: AP6030950 ACC NR: AP6030950 AUTHOR: Bogdankevich, O. V.; Zverev, M. M.; Pechenov, A. N.; Sysoyev, L. A. ORG: Physics Institute im. P. N. Lebedev, AN SSSR, Moscow (Fizicheskiy institut AN SSSR) TITLE: Recombination radiation of ZnS single crystals excited by fast electrons SOURCE: Fizika tverdogo tela, v. 8, no. 9. 1966, 2547-2548 TOPIC TAGS: solid state laser, zinc sulfide, ultraviolet laser, recombination radiation, electron beam pumping, FLECTRON BEAM ABSTRACT: Laser action was reported in electron-beam-pumped ZnS single crystals with a large forbidden gap. High-purity hexagonal ZnS specimens were soldered with indium to a copper heat sink kept at liquid N temperature (except in the case of some experiments conducted at room temperature). The electron beam was focused on the polished surface of the specimen at right angles to the two polished ends. The emission recorded by a ZMR-3 monochromator and an FEU-18A photomultiplier was observed in the direction perpendicular to the incident beam. Recombination radiation was observed in the ultraviolet region when ZnS was excited by a pulsed beam of 50-kv electrons at current densities up to 6 amp·cm $^{-2}$. At increased current densities (6 amp·cm $^{-2}$ and up) and 80K, emission of a line (14 Å wide) at 3300 Å was predominant. The shapes of the light and current pulses were coincident, which would seem to indicate that the life"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-005138002065710005-5

ACC NR: APPROVED FOR SELECTION OF THE CONTROL OF THE CONT

AUTHOR: Bogdankevich, O.V.; Zverev, M.M.; Krasilnikov, A.I.; Pechenov, A.N.

ORG: Physical Institute, Academy of Sciences of the USSR, Moscov

TITLE: Laser emission in electron-beam-excited ZnSe

SOURCE: Physica status solidi, v. 19, no. 1, 1967, K5-K6

TOPIC TAGS: semiconductor laser, electron beam, pumped laser, zinc compoulo selenide, (ASER FINISSION, LASER PUNIVINE.

ABSTRACT:

Laser action in electron-beam-pumped ZnSe at 4600 Å was observed experimentally. The ZnSe crystals were prepared under high-pressure, gas-phase reaction and subsequent crystallization. The samples were 3 [sk] x 0.5 x 0.8 mm, and the spacing between the cavity mirrors was 0.8 mm. The operating temperature was 100K, rising to 150K during pumping. The experimental samples were pumped by 150-nanosec 45-150 keV electron pulses. Redlight emission was observed at small current densities; blue-line emission at 4570 Å was observed at current densities greater than several amp/cm².

Card 1/2

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Further increases in the current density (threshold value 20 amp/cm²) resulted in a sharp rise in the line (4600 Å) intensity (by a factor of 10), a sharp narrowing of its width (from 70 to 11 Å), and a directional effect. Although the mode structure was not resolved, various radiative directions, with a 7° beam aperture, could be identified. The results indicate that the large threshold densities may be caused by the crystal inhomogeneity and/or a high spontaneous recombination cross section.

[JM]

SUB CODE: 20/ SUBM DATE: 21Nov66/ ORIG REF: CO2/ OTH REF: 001/
ATD PRESS: 5114

APPROVED FOR RELEASE: Thursday, September 26, 2002
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APPROVED FOR REL

5/020/65/149/001/017/02 8101/8144

AUTHORS:

Zverev, M. P., Ruchinskiy, S. P., Zuhov, P. I.

TITLE:

Dependence of the heat effects odduring on polymer dissolution on the nature of the solvent

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 149, no. 1, 1963, 128 - 130

TEXT: The dissolution heat of CKC-50A (SKS-10A) divinyl styrene copolymen and CKH-26 (SKH-26) divinyl nitrile copolymen was determined together with the contraction Av of the solution in ditolyl methane, dicumyl methane, discussed and dibutyl phthalate. The equation $= -\mathbb{E}_{11} - \mathbb{E}_{22} + 2\mathbb{E}_{12} \quad (1) \quad \text{where } \mathbb{E}_{11}, \, \mathbb{E}_{22}, \, \mathbb{E}_{12} \quad \text{respectively denote the in whatton of the molecules of the solvent, the polymer and the solvent of the molecules of the solvent, the polymer and the solvent of the in solvents with high dipole noment, the polar SKN-26 showed are near affects in the weakly polar intolyl methane and lesser heat the solvents of the solvents. Therefrom it is concluded that <math>\mathbb{E}_{12}$, in strongly polar solvents. Therefrom it is concluded that \mathbb{E}_{12} , in the least of the macromolecule links in the solution: Card 1/2

Dependence of the hist...

5/020/65/149/001/017/023 B101/B114

 $x = -3_{11} - 3_{22} + 23_{12} + E_{22}^{\dagger}$ (2). The bond between the links is manifest, e... from the contraction of SEN-26 rollston in solvents with high dipole mensor corresponding to colling of the marginal to less in JKH-30A, the into rout what sity terms ses open the dipole moment if the solvent inor . es. The effect of the plassiciar on and flow point is discussed. addition of actolyl methane, dibutyl achaemate or dibutel phthalata re-The triduction the flow point of BES-FCA. Small additions (1.5 %) of in the transfer of the plan of the property of inere are 1 figure and 2 tables.

ASSCCIATION: Moskovskiy institut tonkoy khimichaskay tekhnologii im. V. V. Lomonoseva (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov); Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Theristry of the Academy of Sciences UDSR)

PRESERVED:

August 20, 1962, by V. A. Kargin, Academician

JUBUITTED: Card 2/2

August 20, 1962

APPROVED FOR RELEASE: Inureday, September 26, 2002 CIA ROPSE; DOS 13R01120657 DODG 55

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA ROPSE; DOST 3R00120657 DODG 55

L 17481-63 EWP (1)/EWT (m)/HDS AFFTC/ASD /C-4 RW

ACCESSICN MR: AP3004759 S/0143/63/000/004/0018/0020

AUTHORS: Michurina, G. A.: Zverev, M. P.; Bychkov, R. Anj Klingnkov, Y. S.

TITLE: Forexulation of polypropylene fibers/ from a polymer solution

SOURCE: Khimichenkiye volokina, no. 4, 1963, 18-20

TOPIC TAGS: polypropylene, polymer.

ABSTRACT: Authors studied several polypropylene properties in solution, their dependence upon the structure of the compound and the temperatures which are within the limits of fiber formulation. The dependence of viscosity in the polymer-solvent system upon the temperature and the intensity of the shift has also been studied. High-boiling hydrocarbons with boiling points between 200 and 2500 were used as solvents. Various polymeric structures were separated by the method described by I. Natta et al (J. Am. Chem. Soc., 77, 1955, 1708). It was found that the polypropylene solutions or stactic and stereotlock-copolymer structures become fluid at various shift intensities and temperatures. The viscosity of the system chances very little between 20 and 800. Fowever, it increases sharply with further increase in temperature, reaching a maximum at 1200. The crystalline structure of the polymer is destroyed between 150 and 1600. The

Card 1/2

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L 17481-63
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results show that formulation of fibers from solutions of asometic polymers can be accomplished only at temperatures close to the melting point of the polymer. The presence of solvent in the polypropylene fibers at the moment of extrusion results in the production of fibers with better physical and methanical properties.

ASSCOTATION: THITY (All-Union scientific research institute for synthetic fibers)

SUBMITTED: 2734162

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STB CODE: CH

NO REF SOV: 004

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15 9200 2109,2209, 1526

S/069/60/022/006/006/008 B013/B066

AUTHORS:

Zverev, M. P. and Zubov, P. I.

TITLE:

Interaction of Plasticizers With Fillers

PERIODICAL:

Kolloidnyy zhurnal, 1960, Vol. 22, No. 6, pp. 756-757

TEXT: In the present letter to the editor the authors report on the determination of the wetting heat of carbon black with plasticizers of different polarity. The following fillers were used: gas-channel black with a specific surface of 110 m² and 4.8% oxygen content, and gas-channel black without oxygen-containing groups with a specific surface of 100 m², which was annealed at 900°C in the hydrogen current. The wetting heat was measured on an adiabatic calorimeter (Ref. 2). The table occurring during the wetting heat obtained. The evolution of heat plasticizers (dibutyl sebacate, dibutyl phthalate) is about twice as high (0.055 cal/m²) as in the wetting with molecules of non-polar plasticizers (0.035 cal/m²). As a result, the surface of the gas-channel black becomes

Card 1/2

Interaction of Plasticizers With Fillers

87769 5/069/60/022/006/006/008 B013/B066

hydrophobic by the incorporation of polar plasticiners. As was shown in Ref. 1, the sorption of macromolecules of divinyl styrene rubber on the surface of the filler is thus increased. It was further found that the evolution of heat during the wetting of fillers which contain no functional groups is practically independent of the dipole moment of the plasticizer. It may be assumed from the data obtained, that the better mechanical properties of filled divinyl styrene rubbers in the presence of polar plasticizers are due to the screening of functional groups of carbon black by polar molecules of the plasticizer. According to the authors, this fact might be of interest in connection with the problem of obtaining oil-filled divinyl styrene rubbers. N. V. Mikhaylov and E. Z. Faynberg are thanked for assistance in the thermochemical experimenta There are 1 table and 2 Soviet references.

ASSOCIATION:

Institut fizicheskoy khimii AN SSSR (Institute of Physical Chemistry AS USSR). Institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova, Moskva (Institute of Fine Chemical Technology imeni M. V. Lomonosov, Moscow)

SUBMITTED:

May 17, 1960

Card 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

BONDARENKO, V.M.; ZVEREV, M.P.; KLIMENKOV, V.S.; BEREZKINA, T.A.; GERSHANOVICH, Yu.G.

Fiber formation from polypropylene. Khim. volok. no.6:10-13 '65. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovateliskiy institut iskusatvennogo volokna (for Bondarenko, Zverev, Klimenkov). 2. Kurskiy kombinat (for Berezkina, Gershanovich).

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV, M.P.; RUCHINSKIY, S.P.; ZUBOV, P.I.

Thermal effect produced by the solution of polymers as dependent on the nature of the solvent. Dokl.AN SSSR 149 no.1:128-130 Mr '63. (MIRA 16:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im.
M.V.Lomonosova i Institut fizicheskoy khimii AN SSSR.
Predstayleno akademikom V.A.Karginym.
(Polymers) (Heat of solution) (Plasticizers)

ACCESSION NR: AP4039348

8/0183/64/000/003/0015/0019

AUTHOR: Zverev, M. P.; By*chkov, R. A.; Kostina, T. F.; Klimenkov, V. S.

TITIE: Modification of polypropylene fiber properties.

SOURCE: Khimicheskiye volokna, no. 3, 1964, 15-19

TOPIC TAGS: polypropylene fiber, polypropylene polystyrene fiber, polypropylene polystyrene compatibility, IR spectra, deformation, mechanical strength, polymer amorphisation, structure breakdown, relative elongation, isotactic polypropylene, isotactic polystyrene, steric hindrance, structure mobility

ABSTRACT: The compatibility and properties of fibers made of mixtures of polypropylene and polystyrene were investigated. The densities of the polymer mixtures and the contraction were determined. IR spectra were critically examined and thermomechanical properties (deformation, strength) were determined. Increasing the amount of polystyrene in polypropylene caused partial, amorphization of the polymers. The two polymers are not microcompatible, as shown by IR data and the presence of 2 melting regions in mixtures containing over 12 weights polystyrene. The positive value of the amount of contraction is not a criteria for determining

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5"

ACCESSION NR: AP4039348

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microcompatibility. It is proposed that the geometric dimensions of the macromolecules of the initial polymers and the different dimensions of the secondary
structures affect the amount of specific volume contraction. The formation of
defects in the secondary structure of polystyrene is greater than in polypropylene;
a small amount of the latter in polystyrene causes contraction of the polystyrene.
Addition of small amounts of polystyrene caused the polypropylene structure to
break down. Inctreasing the amount of polystyrene in polypropylene reduced the
relative elongation and the mechanical strength of the latter due to the microheterogeneity of the system and the increased hardness of the polypropylene structure. Mixtures of isotactic polypropylene and polystyrene have satisfactory
physical-mechanical properties if the amount of polystyrene does not exceed 12%.
The energy of activation of creep increased with increase in polystyrene content;
this was explained by steric hindrances created by the polystyrene which impede
the mobility of the polypropylene structure. "In conclusion we consider it our
obligation to thank K. S. Minsker for supplying us the isotactic polystyrene."
Orig. art. has: 7 figures and 2 tables.

ASSOCIATION: None

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ACCESSION NR: AP4039348

SUBMITTED: LIApr63

SUB CODE: OC NO REF SOV: OO8 OTHER: OO3

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Card

Card 1/3

S/190/60/002/011/005/027 B004/B060

AUTHORS: Zverev, M. P., Klimenkov, V. S., Kostina, T. F.

TITLE: Dependence of the Thermomechanical Properties of Polypropylene on Its Structural Composition. II

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 11, pp. 1620 - 1624

TEXT: The authors dealt with the problem of the interaction between atactic and isotactic macromolecules of polypropylene. In the article under consideration, they report on the effect of fractional composition on strength relative prolongation, and modulus of elasticity of polypropylene at 30°C. Specimens prepared by Etlis and Minsker, with a propylene at 30°C. Specimens prepared by Etlis and Minsker, with a molecular weight of 120,000, were used for the tests. The atactic fraction was either extracted by means of ether or by means of heptane. A three-dimensional copolymer was obtained in the latter case, whose molecules dimensional copolymer was obtained in the latter case, whose molecules were found to consist of atactic and isotactic links. The production of fibers of different fractional compositions has already been described by the authors in Ref. 3. Tibers elongated by 300% at 30 - 100°C were

Dependence of the Thermomechanical Properties S/190/60/002/011/005/027 of Polypropylene on Its Structural B004/B06C Composition. II

transition from the vitrified to the high-elastic state. V. A. Kargin, T. I. Sogolova, and N. V. Mikhaylov are mentioned. There are 3 figures and 12 references: 8 Soviet, 3 US, and 1 Italian.

ASSOCIATION: Vsssoyuznyy nauchno-issledovatel'skiy institut
iskusstvennogo volokna (All-Union Scientisic Research
Institute of Synthetic Fibers)

SUBMITTED: April 14, 1960

Card 3/3

Dependence of the Thermomechanical Properties S/190/50/002/011/005/027 of Polypropylene on Its Structural B004/B060 Composition, II

investigated here; they consisted 1) of isotactic polypropylene, 2) of 93% isotactic and 7% atactic polypropylene, 3) of 93% isotactic polypropylene and 7% three-dimensional copolymer. The authors reached the following conclusions: 1) Due to recrystallization and orientation, the fiber stability increases with the temperature at which the fibers were elongated. 2) The modulus of elasticity shows a maximum of fibers elongated between 100° and 110°C. The different values of the modulus of elasticity at different polypropylene compositions are explained by the fact that on stretching there occurs, besides re-crystallization, also a translation of crystals without appreciable deformation, so that the atactic structures in-between have an elasticizing effect. The modulus of elasticity of fibers stretched at 100°C was examined between -40° and +120°C, and it was found that a) in the range -40° to -20°C, viz in the vitrified state, the modulus of elasticity is not dependent on the fractional composition; b) on the transition to the high elastic state. the modulus of elasticity varies in dependence on the fractional composition, the fibers with atactic fraction exhibiting greater changes, Crystallinity can be estimated on the basis of these effects on the

Card 2/3

ZVEREV, M.P.; BARASH, A.M.; ZUEGV, F.T.

Heats of precipitation of polyacrylonitrile from solutions. Vysokom. sced. 6 no.6:1012-1015 Ju 164 (MIRA 18:2)

1. Mookovskiy institut tonkoy khimisheekoy tekhnologii imeni Lomonosova. "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5"

KLIMENKO, V.S.; ZVEREV, M.P.; GHUZDAV, V.A.; BONDARENKO, V.M.; MICHURINA, G.A.

Synthetic fibers based on isotactic polypropylene. Thim. volok. no.4:19-22 '59. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

(Textile fibers, Synthetic) (Propene)

ZVEREV, M.P.; ZUBOV, P.I.

The structure of gels. Part 9. The effect of the nature of the plasticizer on the physico-mechanical properties of divinyletyrene rubber. Koll.zhur. 19 no.2:201-203 Mr-Ap 57. (MIRA 10:5)

1.Fisiko-khimicheskiy institut in. L.Ya. Karpova. (Styrene) (Rubber, Synthetic)

ACC NR: AM6033433

Monograph

UR/

Konkin, Aleksandr Arsen yevich; Zverev, Mikhail Petrovich Izd-vo "Khimiyn", 1966. 278 p. Polyolefin fibers (Poliolefinovyye volokna) Moscow.

illus., biblio., index. 3700 copies printed.

TOPIC TAGS: conjugated polyolefin hydrocarbon, synthetic fiber, fiber

PURPOSE AND COVERAGE: This book is intended for scientific and engineering workers in the synthetic fiber industry and in associated branches of industry concerned with synthetic fibers. It can also be used as a textbook by students of chemicalengineering and textile institutes of higher education. The book discusses the besic principles for synthesizing polyolefins (polypropylene and polyethylene) and their most important properties, and describes the effect on the process for producing polyolefin fibers. Also described are the rheological characteristics of ducing polyolefin fibers. polymer melts, the fiber-formation processes and the drawing and thermal fixing of the thread. The properties, means of modification, and possible fields of polyolefin fiber application are examined. Chapters I, II, IV and V were written by M. P. Zverev, and the introduction, Chapters III, VI, and VII by A.A. Konkin. The authors express gratitude to Doctor of Technical Sciences K. Ye. Parepelkin, Candidate of Technical Sciences T. V. Druzhinina and A. Ya. Malin, and to A. R. Gantmakher for their helpful advice. There are 395 references 219 of which are Soviet.

Card 1/2

UDC: 677.494.742.2/.3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065710005-5 CIA-RDP86-00513R002065710005-5" ACC NR AM6033433 TABLE OF CONTENTS (Abridged) Foreword -- 5 Introduction -- 7 Ch. I. Production, structure and properties of polyolefins -- 12 Ch. II. Destruction and stabilization of polyolefins -- 65 Ch. III. Basic mechanisms of the process of fiber flow and formation from polymer melts -- 88 Ch. IV. Formation of polyolefin fibers -- 146 Ch. V. Drawing and separation of polyolefin fibers -- 192 Ch. VI. Properties and fields of application of polyolefin fibers -- 196 Ch. VII. Modifying the properties of polyolefin fibers -- 225 References -- 267 SUB CODE: 07,11/ SUBM DATE: 28May66/ ORIG REF: 188/ OTH REF: 176/ Card

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZVEREV. M.P.: MARGARITOVA, M.F.

Polymerization of isoprema with styrene. Ukr.khim.zhur. 24 no.5: 626-628 58. (MIRA 12:1)

1. Dnepropetrovskiy knimiko-tekhnologicheskiy institut imeni Dzerzhin-skogo. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomonosova.

(Isoprene) (Styrene) (Polymerization)